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Space Maris Jr., M.D.

TRANSFUSION OF THE BLOOD.

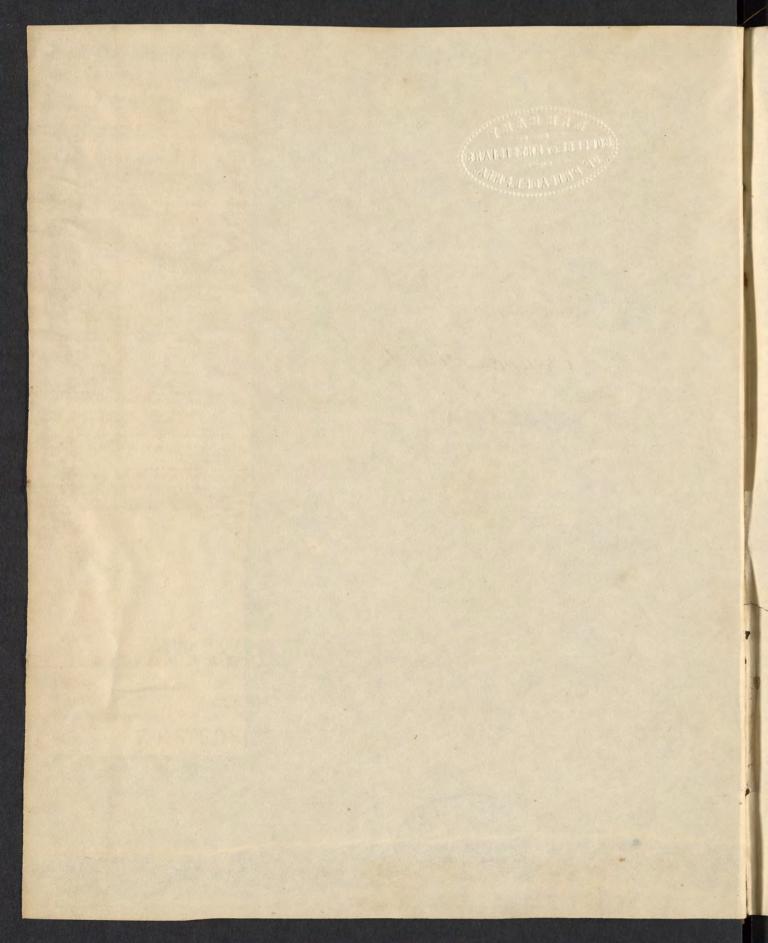
The Courrier des Etats Unis, of a late date, contains the particulars of a curious and interesting case which recently occurred in one of the Hospitals of Paris, and in which the blood of one per son was transfused into the veins of another, and the life of the recipient saved, or at least prolonged by the operation. The patient was a woman, and after her accouchment, a profuse and exhausting nemorrhage tollowed. Her pulse had ceased to beat for several minutes, and nothing more than a slight undulatory shuddering could be perceived from time to time. She was evidently dying, and as a last resort of his art, M Nelaton, determined to try what effect transfusion would have, which determination was soon carried out. One of the attendants, M. Defour, voluntarily offered to lose his blood in the cause of humanity, and the re quired quantity being taken from his arm, it was injected from a syringe into a vein of the head of the patient, and passed immediately into the sys-The blood was injected at about its natural temperature. The whole quantity was from thirterm to fourteen ounces. There were two injections. the first of about eight ounces, and after an interval of five minutes, five or six ounces more. The woman revived immediately, and was doing well for a week after the operation, when she was carried off by inflammation of the bowels. The transfusion was considered to be, however, perfectly successful.

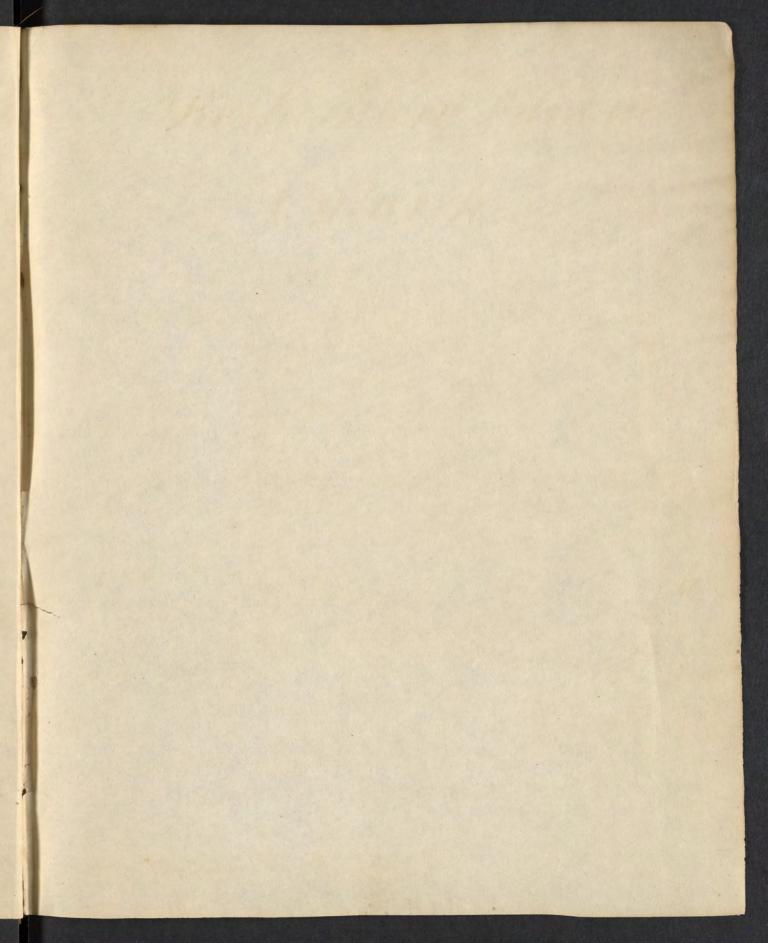
The Washington Globe, alluding to the circumstance, says that transfusion of the blood was tried in England and France nearly two hundred years ago, and after being a medical hobby for a few years, fell into disrepute, and was altogether abandoned. At Paris it was prohibited, on account of some unsuccessful experiments, and Perrault, a distinguished anatomist, gave the coup de grace by a bon mot. A man could not change his blood, he said, as he does his shirt. And so this theory, like a thousand others, was laid upon the shelf, ap parently forever, until resuscitated by MM. Prevost and Dumas, about thirty years ago, who demonstrated, by experiments on animals, that blood artificially supplied by transfusion would reani-mate them and restore the vital energies; but the blood transfused must be an animal of the same species of the recipient, and the physical and chemical properties the same. And it ought always to be the blood of a young and healthy person, when the experiment is to be tried on a human being. The old experimenters erred by injecting the blood of quadrupeds into the human system. and they did not employ the same degree of skill that is now employed. Within the last twentyfive years, there have been not less than ten or Jeether of Mathan Chafman raging enough to justify the experiment in desperate and in very doubtful cases. If the blood of all healthy persons is chemically the same, or very nearly so, reason would seem to indicate that in cases where a deficiency in the quantity of the changer. blood in the system is what makes the danger then an artificial supply would be a natural remedy

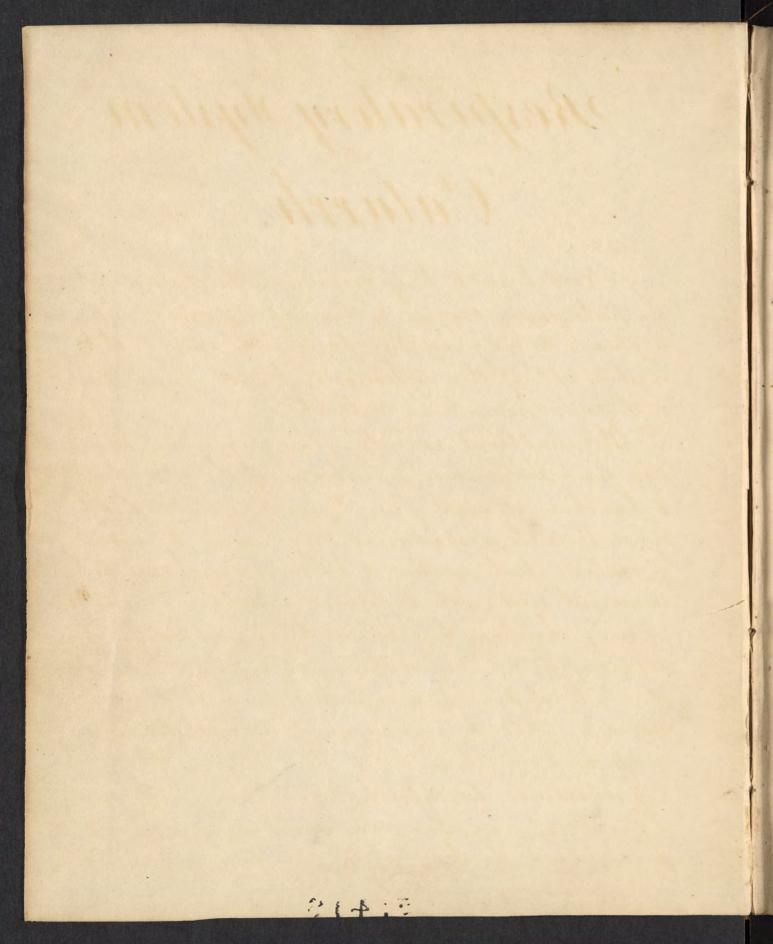
Erg. Bulletin Feb. 8.1851



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Respiratory System. Catarrh.

Next I am to bring before you the diseases of the pulmonary organs & their appendages, as the tracked & its neighbouring parts. As among the most simple of these affections, I will commence with some remarks on catarrh.

This complaint consists in an augmented overetion from the mucous membrane of the nose, throat & bronchia, attended generally with more or less fever. Catarrh is most commonly induced by sudden vicissitudes of the weather; & hence may almost be considered endemial to the more variable climates. It may, however, be occasioned by an abstraction of a part of the ordinary clothing, by exposure to draughts of air, by deeping in damp theets, or in cold, wet rooms, & indued, by any circumstance calculated to suppress perspiration.

It is common for catarrh to commence with some difficulty of respiration, & a sensation of fulness & pain about the head which may be acute, or dull,

shoot minimum dishin

or heavy. These symtoms are followed by a distillation of acrid fluid from the eyes & nostrils, exemiating the parts over which it trickles. Associated with this congra, as it is called in medical lanquage, there is commonly some degree of lassitude I muscular souness. A cold shin, or at least, a great er sensibility to the application of cold air, is always experienced at this stage of the complaint. These symtoms do not long continue before some hourseness, with a sensation of roughness & sowness, comes on, accompanied with a stricture across The chest & a day, viritating cough. Such is the ordinary character of catarrh. But, after a few days, if not ill managed, the disease subseder, the fever ceases, & next the cough breaks which is announced by the copious & easy expectoration of a thicks, tenacious mucus.

Cases of this disease, however, are not very rard which, either from original violence, or relapses from indiscretion, but on a more serious & formidable character. It is, indeed, hardly ever proper to neglect a cold, especially if it occur in persons of a weak chest, or hat evinces any irritable tendency. What at first may sum a simple catarrh has been known to terminate in some one of the

* In children a splices of bronchitis sometimes ensues. There is more hourseness & whitzing, not so much five or pain - Expederation slight. Sometimes there is displace. These symtoms soon remit for a time, but return more aggravated. Signs of disturbed circulation appear, as livid face & lips - The patient becomes comatose & dies.

t Ashma & Hydrothorax are among the consequences. Dissections show an inflammation of the lining membrano, & effusions of coaquelable lymph, & congestion of the lungs.

Anginose affections, & even to extend to the lungs themselves, exciting active inflammation of these organs. Cypanche tonsillaris is not unfrequently an accompaniment of catarrh in children; & we often see this disease eventuate in the worst forms of periphnemonia notha in advanced life. But bad as are these more immediate effects, they are of little consequence when compand with the dread of pulmonary consumption from this disease. Of the cases of this horrible malady which occur in every country, a very large proportion, I presume, may be directly traced to neglected or ill manage a catarrhy.

As in most other diseases, the remedies for catarrh may be divided into such as are proper in the forming stage, & such as are to be employed when the ease becomes confirmed. My own experience informs me that nothing answers so well to suppress an attack of this complaint as a moderate dose of landamum or opium taken on going to bed. I have tried it 100 times on myself & still oftner on my patients, so that I cannot possibly have any doubt as to its efficacy. It excites an universal glow over the body, without producing much, & in many cases the slightest, perspiration. Determi-

* Dr. Physich recommends a fumigation of equal harts of Hoffman's anodyne & landanum to the internal broat & lungs. An infusion of cienta in ether answers very well. I know now nothing better than the above for loss of vois, to.

+ made stimulating with salt, or hechong whes.

ning from what I have remarked, I am not Satisfied, that by combining diaphoretichs with opium we gain any quat advantage. Opium appears to operate merely as a diffusible stimulus, overcoming, by its superior power, the feeble action of the incipient, or forming stage of the disease. This practice in the early stage of catarrh does not rest solely on my own authority. On the contrary, it is confirmed very fully by the experience of Dr. Physich, who dictares that it is incomparably ouperior to any other remedy in that complaint. I did believe that this practice originated in America; but in turning over a treatise on opium which was written 10 or 80 years ago by Dr. young of Edinburgh, I found the same language with regard to this medicine in the incipient stage of catarrh, as I have just now held to you. To that author the eredit is undoubtedly due of first bringing the remedy, under such circumstances, into notice. But when we are precluded from the use of opium, either by the prejudices of the patient, the idiosynerasis of his constitution, or by any other cause, it will be right to resort to the predent use of sweating. For this purpose we should employ the mild er methods, as pediluvium, or the internal admin* Molasses whey is likewise good. It is made by eurdling milk with molasses. Vinegar whey, or any thing else that will excite sweat. Vinegar whey is good for houseness, when during or following a cold. Molams whey is particularly unful in houseness. An infusion of the expetorium.

+ Calonel purges preferable at the commence-

istration of some mild diaphoretick, as nitre & antimonial wine, the action of which should be promoted by the use of warm beverages, and particularly by hot lemonade.

After, however, the catarrh is completely formed, it exacts for its treatment, measures infinitely more energetick & decisive. The colds which own in every part of our climate, if they assume any degree of violence, are difficult of cure, & require to be managed by the employment of V.S. Tho quantity of blood to be detracted & the interval at which the operation should be repeated, depends on the pulse & other circumstances of the case. As a general rule, however, a single bluding, if espions, will be sufficient; Though I have sun the disease refuse to yield to the loss of 100 owners at different times. As auxiliary to the lancet purging should be early resorted to, & The saline articles are universally properced. Either of the neutral salts, as sulphate of soda or Epsom salts, may be emplayed, & will answer alone, or, what is better, in combination with nitre & tartar emetich in the proper proportions. Judging from my own personal observations, I should prefer the following mode of administering them.

It may be dissoluld in 3 or 4 owners of water, & a table shoonful given occasionally. a sulplicate in section or leaven sollie and Pr. Sulphat of Soda 3j

Nitrat of Potass 9 ij to 3j

Fast. Antimony grss og j +

Divide the whole into 4 powders, & give one every hour, or two hours, so as to keep the bowels opin. It has been a favourite practice with many physiceans to manage catarrh exclusionly with the antimorial preparations with the view to their nauseating, properties. All our spiculations relative to the disease, warrant this course of practice. Golds are accompanied with constriction of the surface, and nothing is calculated to whive this so effectually as nausca properly induced. It is much the fashion, in Guat Britain especially, to treat the catarrhal affections, which prevail there to a greater extent than in any other part of the world, on the plan just alluded to. But whatever may be the success of the practice elsewherd, it would certainly not answer in the catarrho of our own country. As regards the United States, The complaint of which we are treating, is characterized by the highest grade of active inflammation, & for its cure demands the most direct & efficacious depletion. Effuts infinitely more striking & dicervo are produced by emeticks given so as to produce vomiting, than from nouseating doses of the same article. Exhibited M and the set it will be a second from the second of desirable and secretarial residence of the second of the s restriction was a service of the supplication of the first with Elmanne to the proportion of many War at a later than the second of emilitate and a formation of the world the second the standard of the tention of the

early in the disease, there are indeed few eases which would not be entirely removed, or exceedingly mitigated, by these remedies. They are , however, exceedingly unpleasant, &, except in cases of children, can seldom be employed. Even with children they should not be resorted to when the attack is so far advanced as to produce pain & inflammation about the chest. Under such circumstances V.S. is alone adequate to The case, & can never be dispensed with . After suffruint blood has been withdrawn, & the lowels have bun put into a soluble condition, the nitrous powders repeated at stated intervals, will be found very beneficial. Not a little confidence has been reposed in the vesicating applications in the catarrhab affections. Properly applied, blisters, undoubtedly, may be advantagious, & sometimes are of the very first necessity. Much inconvenience as well as injury, will, however, accepted, if they are put on too early. They are aft to distress the patient exceedingly as long as much cough exists, & not to alleviate, in any degree, the force of the complaint. In the declining stage, when there is a hard linguing cough, attended with much pain about the chest blisters may be directed with unequivocal utility, & often cannot at all be dispensed with.

Will Sheet with the will be the with growth of the married will be to the state of the stat and the william in a whole some the the decide had Little and the state of the selection from does alcolor at the later at the first the the state I the thing was the state of the same La Land Land and the Control of the

All of you know how much certain preparations called cough mixtures are employed in cases of catarrh. There is hardly a family which has not some nostrum of the kind which is brought forward, on all accasions, in a love of sufficient confederec. Numerous & diversified as are these mixtures, they always contain as a hading ingredient, Opiem either in the shape of laudanum or paregorich. It is obvious that such combinations cannot be indiscriminately resorted to with advantage in all cases of catarrhal affections. Befor the violence of the attack is broken, which is evinced by looseness of the cough & the feedom of expectoration, my experience informs me that they are highly mischievous. They produce, for the most part, increased tightness of the chest, head acho, & an aggravation of all the febrile symtoms. After, however, the disease has nached that period to which I have before alluded, these mixtures are not only beneficial, but are the most important of our remedies. I shall not pretend to detail all the formula which are employed, but shall content myself with mentroning those which I consider as the best suited to the circumstances of the case. In a means of promoting expectoration & allaying the irritation which

+ This is the brown mixture A HATHON ING Opening the will be to hardinger a policioneth. It is whose the wife which the the earlies in histories in which will I to mid document mer on all course of continue harder affections in land on the continuence will be in a wife the to all importances, that produce in the person the concentrate the the state of the second dail til no the mort infrobated of me incomplicat. dell int with the to the to det " the free much will without I have also the think the

| and My and I know nothing which is so our- |
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| early successful as the following prescription. |
| erally successful as the following prescription. |
| Take Extract of Glycyrrhina 311 iii |
| A A Till iv |
| Agna Bul 3iij iv |
| Rub Them well in a mortar & add |
| Spts. Nit. Dul 3ij |
| 2: 1 11 |
| Vin. Antimo 3) |
| Tinct. Ohis . get Xl or I 30 or 40 + |
| Tinct. Opin get. XI or L 30 0 40 + Shake the mixture well & let a table spoonful be |
| Thate the mexture were of the a latte offer of |
| taken every 2 or 3 hours awording to circumstances. |
| The formula which I am now about to mention |
| |
| will, sometimes, answer very well |
| A. Sal. Fart 311, 1 |
| |
| Vin. Antimo 31 |
| Finet. Opie gut. XI on L 30 a 40 |
| Shts. Lav. Comp. 3ij |
| A Siii iv av |
| Agna |
| The dose & manner of administration are precise- |
| by as in the former case. In most instanter advantage |
| ly as in the former case. It will it |
| may also be derived from the following prescription. |
| A. Oxymel or Vin. Scilla 3j |
| |
| Vin. Antimonii 31 |
| Spirt. Nit. Dule. 319 |
| Tinet. Thebas . gt XL |
| |
| Gum. Arab 311 |
| Agua 311j iv |
| |

Sugar dissolut in a speal quantity of vinegar, heated, & made into a thick orpule very good - Done 355

Another.

A. Gum. Anab. 3j Cream. Fartar 3j 3j Sugar Candy 3j Boiling water Wij

After the catarrh has become proteacted, & the symtoms of inflammation have wholly disappeared, you may resort to the balsamich medicines with unequivocal utility. I shall say more of these hereafter, & at present shall only observe that the balsam of Jole always answers best. It may be administered in the following manner.

R. Tinct. Tolu. 31

Tint , Sigit 31, Finct. Opin 31

Forty or fifty drops of this mixture dropped on loaf sugar, & dissolved in half a wine glass full of water, may be taken 4 or 5 times a day. It is especially beneficial in the catarrhs of old people.

Thave thus detailed the remedies applicable to the management of catarrh in every stage. But little will be accomplished, at any period of the disease, by the remedial treatment, unless a strict antiphlogistick course be pursued. As relates to the diet, it should be of the lowest discription, consisting principally of the

to dole recommendate the state of the sales to the sales ables interpolated a factor that we dilling the restand all the second of the second and the

demulcent drinks, as barley water, flaseseed tea, loaf sugar & water, mucilage of gum Arabic, &6.; all of which may be undered more agree able by bing, moderately acidulated with vinegar, or with lemon, or lime juice. It is important that while these afford nourishment to the patient, they are not distitute of utility in relieving the more distressing syntoms of the disease itself. It is my desire to impress on your minds more particularly, the necessity of an attention to diet, as the common prejudies of mankind, strengthened, in many instances, by physicians themselves, have been against it. To feed a cold & starve a fever has, for a long time, been a common aphorism, & like many other vulgar aphorisms, is founded in error, & if carreed into practice, would prove injurious. He know that catarrh is a fever, & a fever too of a highly inflammatory description. Let me, therefore, repeat to you the importance of resorting to a low diet in These cases. Even when more is required than merely the demuleent dinks, vegetable matters should be the only substances allowed. Trew, turnips, potatoes, hommany, & The vegetable broth, are all that Should be admitted in the inflammatory cases of catarrh.

+ 3 frints of water to be boiled down to one print

* Prin or barley may be boiled into a jelly.

Brigandy fitch plaster on the breast is an equillent presention.

except alite getter in

The vegetable broth is particularly useful, & may be prepared in the following manner.

Take 2 turnips, 2 potatoes, 2 onions, a little celery, & a slice of bread: to hese add to a gallon to water, & bool for a few hours, or till the texture of the vegetables that be destroyed. Strain & after adding a little salt, pour it over dry toast. This is more palateable than weak animal broths, & is preferable in a medical point of view.

The vegetable jelly is also a useful article of diet for those affected with inflammatory complaints. To prepare it, take 3) of gum Anabic, 3) of Sugar, & a sufficient quantity of water, & reduce them to a jelly. To this add a small quantity of lemon or lime juice, & the patient will be unable to distinguish it from ealor's feet jelly. \$

Catarrhus Epidemicus, or Influenza.

I shall next mention the remedies in catarrhous epidemieus. This, perhaps is the most wide spreading disease with which we are acquainted. Not only does

is weather the above to confel at the plane to have a dieth of war any and There to the latel friend of ut some were it to de segulable getting it some to be little and from Le to see the mater to be bed he to have fill and fire the seather ment of the state. helichelper Africa Its of over phasic Blateston galor to be influenced you will refresales to reterin lain on love i per per la the produce of saille the word of the sail Complement of faces wither to pullight the Culumbin Ghideminis. a . Infinime. The second the second s

it affect a particular country; but, in some case, extents its influence over every habitable portion of the globe. By the Italians, on this account, it was denominated Influenza, a term by which the disease, is, at present, universally recognized. Ever since the earliest medical records, This complaint appears to have existed. It was anunately described by the antient writers, & since may be traced down to the latest period of its occurrence. As regards its course, we shall find it generally to have proceeded from north to south; though sometimes it has hursued an opposite direction. Between the common catarrh & influenza, a studing analogy exists in many respects. There is this difference, however, in relation to their origin; that catarrh evidently ariors from the senseble qualities of the air, while the influence depends on some unknown distimperatwo or variation of the whole atmosphere - whow that state which produces epidemichs generally. Contagion, it is true, has been alleged as a cause of the direase, & there are not wanting some respect able authors by whom it is ascribed altogether to this source. But I have reason to believe, that this sentiment is wholly gratuitous; & it is undoubtedly contradicted by an immener wight of evidence

a the interior he had one some we diverge on delined and the state of land and the state of the s

of a nature direct & conclusive. It is stated, that during the prevalence of influence, persons entirely sequestered from all communication with others, as the patients in a hospital, or the inhalitants of monasteries in colholich countries, have, all at ones, been attached with The disease. Independent of this fact, the complaint is uniformby distinguished by all those circumstances which are common to epidemichs occurring at stated intervals, sweeping with prodigious rapidity over whole countries, & compelling all the subordinate affections to bund to its influence & acknowledge its supremacy. Like the other spidimicks it also appears in the varied character of inflammation, or of typhus malignaty. Most generally it exhibits the symtoms of ordinary cataroch, with some degree of aggravation, & demands the same description of remedies, accommodated , however, to the greater violence of the ease. But when it puts on the typhus conditron, which it seldom does, the peactive, of course, must be different. In this case the treatment is similar to that employed in the late winter ofidemich, consisting of moderate blood litting, and active diaphoretich measures.

+ When the dinare is realed in that part of the pluna which covers the convey surface of the diaphragm, it is called paraphrenitis; because it is attended witho deliveren & rises sardonicus.

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The influence, more particularly in the United States, appears more than once, especially in the southern section of our country, to have been attended with bilious symtoms, & to have but on the general character of the diseases of that climate. When it assumes this appearance, the symtoms are always to be regarded as merely accidental; though it appears that emetichs & mercurial purges are much demanded, and one highly serviceable in the cure. But, generally, speaking, the influence must be considered as a highly inflammatory catarrh, & as demanding exactly the same remedies, urged to a greater extent.

Pneumonia.

From the catarrhal affections, I pass on to the consideration of the nature & treatment of preumonich inflammation. By some of the not sological writers, a great variety of cases is made out of this morbid condition of the pulmonary organs. The pleasa being inflamed, the disease is called pleasities or pleasing. When the parenchyma or substance of the lungs is affected, the title is changed

x Incumonia vera { Pleurisy. Teripneumony. Inun J'interme

to peripreumonia or peripreumony. An engorged or suffocated state of the lungs has been denominated peripneumonia nother or bastard peripreumony; & a vheumatich affection of the intercostal & other contiguous muscles, is known by the appellation of plurodine or opurious pleurisy. This, however, is a distinction infinitely too minute & artificial to be retained in actual practice. If pneumonick inflammation I shall treat under the general division of pnewmonier vera & preumonia notha: The first of these embraces pleurisy & parisneumony. There may be some difference between the two cases: Though, as they are described by Gullen who is very fond of this split-hair division of diseases, there is no diagnostick by which they can be discriminated: I even if there were, it would not be at all material as regards the mode of cure. Whatever may be the precise scat of pneumonia, it may always be recognized by the pyreyea, difficult respiration, dry cough, & pain in some one part of the thorap, when on one order or the other, or in the breast. But these symtoms on different occasions are variously modified. The generality of writers say that the pain is most commonly in the

+ But above all by a copious discharge of puriform matter by experturation.

nome with a pour more wither the liver

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the more placed browning is

right side: but determining from my own experience, I should, without hesitation, decide that the contrary is the case. In my whole practice, though I have had much to do with this disease, get I have never seen it occur more than half a dozen times in the right side.

The unfavourable symtoms are high fever; delinium; short, laborious respiration; the patient eaising his shoulders whon inspiring; a cough without expectoration; sudden prostration of strength; livid face & lips, indicative of obstructed circulation.

The favourable symtoms are the reverse of these. Gentle sweating; the wine depositing a copious sediment, & some critical discharge, as diarrhaa.

Dissections show the vessels of the pleura injected; effusions of coagulable lymphh, forming adhesions; accumulations of phlegen or mucus, & sometimes blood, in the substance of the lungs; &, sometimes abscesses; gangiene; or effusions of water, to forming hydro thorax, H.

As regards the causes of pneumonia, they are very nearly the same with those of all other internal inflammations. The chief of them are vicissitudes of the weather, and the direct applica-

The half is the world from the first the high the transfer of Carlet and and laterament wind with me the start aske tee they be in after a sell in a first the a "that it is free to the total of the thing of the things of the second section of the second and have between distinct all the forms of the south Side I am the a the winds of the place in regard the self-read of declared the light to many with win her how the wilding of the language holye the wind to the world will of the property of the will will see the

tion of cold in any way to the body, especially if it has been previously heated. The disease commonly selects as subjects, of its attacks, persons of robust make & vigorous heatth, & possessing an inflammatory diathesis of constitution. Most generally it occurs in the winter & spring, more especially when the seasons are variable and unsettled.

Of all the diseases to which the human frome is liable, with the exception of cynanche trachealis, this is, perhaps, the best understood & most easily managed. Common pleurisy is a case of high & active inflammation in which The indications are very few, very simple, & perfectly intelligible. Now, so far at least, as relates to the early stage of the complaint, can there be any doubt as to the choice of umedies. Every practitioner in whatever school he has been educated, concurs in the propriety of prompt & copeous venesection. Even the prejudices of mankind are enlisted in favour of this practice. This indeed is so much the case that strong as may be the opposition to bleeding in any partieular instance, give to the disease the title of plurisy, & every objection & prejudice is at once removed.

a Carlled a Maryles of the form of the state of the The state of the s ing a series the second of the first of the first of the second a secret from the second of th exily extended to being the one pleasing the our deligh the live in the construction with the their in acade de are nous flux med a last la faction to suchly the way in fire which it will to be the Court and a Markey of the Mary Election and a second mount in the first of all tribule to reprine venintertion. The the finite the server the latest to the said of the latest to the at which is a first of which the said of the said The said of the sa

Called, therefore, to this complaint in the early stage, I make no hisitation in drawing blood very freely. To do this, however, with greater effect, the varifier should be large, to as to allow a bold and rugorous stream to flow. No fact, perhaps, is better ascertained in the whole compass of "practice of physick, Than that in the eduction of inflammatory action, more is obtained by the suddenness with which blood is detracted, than by the quantity taken. It is alleged that this is so much the case that 10 ounces of blood taken as speedily as possible will produce as great an effect as double the quantity drawn slowly away this' a minute orifice. It is important that you should bear in mind a fact so interesting both in a speculative & practical point of view. A full illustration of this doctrine may be found in the 4th dissertation of Sir George Fordyer on fiver. It is not easy to indicate any exact rule for the use of the lancet in these eases. It may be remarked that more is to be apprehended from a limited & restrained employment of it than from any excess of depletion. I repeat it, infinitely more harm is done in the management of pneumonich inflammation

Made the said the said of the the second second second second second The think in the way of the in the second of the second of a deal of allow have forthe that I the the the thing property the case that much sold through little or an opposite in an fastible will produce it and I would be to double the widerful deaver that is surery had la monte ought to the interest of Thought to transferry to a few is to continue have but believe specially the function fragilit of much is better the total of the first for any again by for and the little delle late of the file of the second the file of successed the not expect to indicate my spiret There he the land of the livered in the so native although he wanted the from dete to able limbed from allinged & astronoud on allow der to be I live for any aford of difference any the most thing in a grant for for for the forth in the

by a limited employment of the lancet than by any excess of it. Generally speaking, I should say that in a stout adult subject, with a confirmed pleurisy, where there is a strong pulse, & much pain & difficulty of respiration 30 ounces of blood are about the proper quantity to be taken away at the first operation. Even this will not always answer ; I in a few hours we shall be called by the urgency of the symtoms to repeat the bleeding, sometimes to the same extent as at first, though this is seldown necessary. There is in this complaint, when we are called at the very ouset of the attach, a guide to which we may safely trust. It is my practice never to the up the arm in a violent case of pleurisy till the pain remits & the respiration is relieved. Whether 15 or 30 ounces of blood be necessary to be drawn to accomplish their purposes is a matter of no sort of consequence to me. But this rule does not apply with equal force to the advanced stages of the complaint. The reason is very obvious & may be readily explained. After pleasery, as any other case of common inflammation, has continued for a few days, the capillary vessels which, as I formerly

I will from the blow is the he at less his on I the describer of Wheteners of Monte to a about the freefer interest to the feet afrecations. There had early grape of my war with the in head had the shall be called by the account of of the same lines to extend the the hirty, soin hings to the shows explication at first shoot this it alliens beateness There is Vis this wint thank till and ash sathed it has never said of the allowing a suice to salded on many dulidy land. It is well from the the leave in a mobile our of between by tell the form in some to I the despised on to which it whither 15 or thousen of blood burn colonied to the dispers to incord the this first fire their he dialler of and sold of considerant la one not a little raile reduct books? to the selection is decrea on the noveled links they reason is never always to may be weekly workling cities all intellegates without while cape in some has intermedition, that continued years for

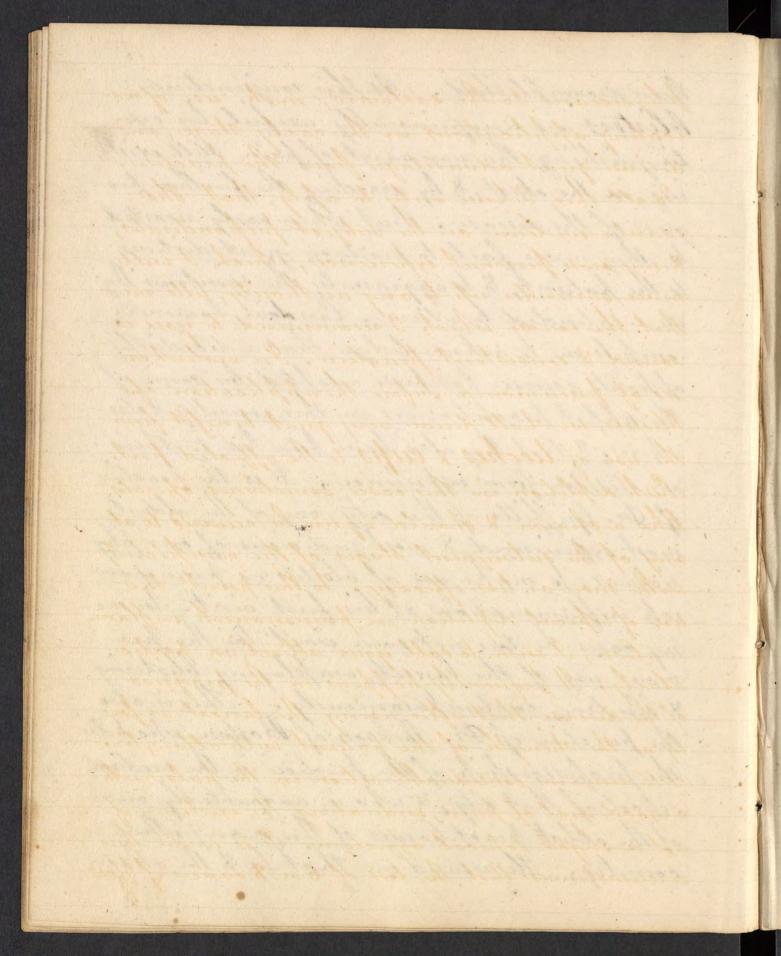
told you, are, to a certain extent, independent of the heart & arteries in their action, become affected; & no portion of blood detracted from The general circulation, will be productive of any, or at least of much affect on the local offection. Of this law of pathology which, so far as I know, has more been inforced by any but myself, many striking ellustrations may be produced. The whole order of phlegmasia of ford a proof of it, as well as of the propriety of the practice which it suggests. To whatever extent we may carry V.S. we shall hardly wer be able to eure oftalmia or rheumatism, without resorting to local bleeding, or to some other means of making a local impussion on the capillary vessels. The same is the case with regard to pulmonich inflammation. Nevertheless we should not too hastely withhold the lancet. The diseases of the lungs for several reasons & especially because the circulation of the blood is Through these organs, require greater depletion for their our, than those of almost any other part. It is also true that in preumonich inflammation, The loss of blood is infinitely better borne than, perhaps, in any other disease.

. . . to the specific or interior interest, and the thirt the left to majoration of blooms all we had not feeter for the thing to be at for the the term to should have as the live in the moon had not the me have the wind the way the time to the the bear a will be the first he will be it him you the winder to winder to Have semple thing N.S. Law wheat Children to high time to the time at the fair into the will have been been 44 Gat the listes of Menting in some deller since 4 Ly grande in this rich in the state of the first with the still with feet the title is with the the store of The Signal and Miller of the second secretical & in I blister the translation of the Classer her at water deared where and other the total the there were find there of what is not a few gate the stay shattle that is harmonish in the more in the food of the content of the the

20, 30, or 40 ounces do less towards debilitating the patient in inflammation of the lungs Than half the quantity taken away in almost any other case. This is so much the fact, that it is utterly impossible to induce syncope or fainting in pneumonia; I speak, of course, of the commencement of the attack. I have sometimes detracted 40 or 50 ounces of blood without producing the least tendency to syncope. Being perfectly satisfied that the force of the circulation is sufficiently reduced, we next resort to local remedies. Of these by for the best are the vesicating applications. But there has always been much difference of opinion among practitioners as to the exact period at which they should be used; It by some authors of respectability, it is utterby denied that they are useful under any circumstance of the disease. Of the efficacy, however, of blisters there can be little doubt, if they are rightly timed. My own practice which Thave reason to believe is sanctioned by the best authority of the present day, is uniformly to postpone the application of blisters till a considerable reduction of arterial action has

the same at the first of the state of Elophalation in the land with the land and while we have a thing of the facility that if the there is a fine the thought to be selected the he the formation in himself is a property of to less with a many and at the settle still them i different and the late of the state of the state of the of shill a feeth with interiprit that the former as next week to love two winders gilled to had he dust en the reduced will be at the and the sound of the second did the wind at which the first the should be seen the When we need for a fact the think it is the will the to feeler what his were with the land a feel commendation of the expenses in the williams Some in Chisters the second of the last the they are regardly trained the made forested as in and he will be distincted in surpression of some the a hour thank at the house of their is you forced employed the selection of white till as the second of th

been accomplished. At this conjunctione, blisters are unequivocally useful by extinguishing the remnant of pain still existing in the chest, & by arresting the further progress of the disease. But when early recorted to, they never fail to produce great distress to the patient, & to aggravate the symtoms they were intended to relieve. Candour, however, compils me to acknowledge that a decidedly opposite course has been adopted by some of the ablist practitioners in this country & elsewhere, & that they also have been led to their conclusion from experience. It is the practice of Dr. Griffitts of this city, one of the oldest, most experienced, & most judicious of our physicians, to make use of blisters in pneumon ich inflammation at his first visit. In mamy eases he does not even wait for the previous use of the lancet, employing blistering & bleeding contemporaneously. This is also the practice of Dr. Sackson of Boston who holds the professorship of the practice in the medical school of that city, & who is, undoubtedly one of the ablest practitioners of this, or any other, country. He assured me that he & the other



physicians to the eastward, make use of ouricating applications in the early stage, and derive great advantage from the practice. To all this I have only to reply, that the counter evidence on the subject preponderates, & my own personal experience, which I will never surrender who to any authority, tells me, that the course which I recommend to you is sound & consistent practice. In violent eases of preumonice before the application of blisters, we shall derive very great benefit from The use of lecches & cups to the affected part. Such depletion in this case, sometimes operates like a chaim & should again be recurred to at any of the subsequent stages of the complaint, with more or less efficacy. To this point, the use of topical depletion in preumonich inflammation, I wish to call your attention partieularly. It frequently happens in the progress of the disease that after using the laneet as fairby as the strength of the patient will allow, there still remains considerable action in the pulse with a good deal of pain, indicating the existence of not a slight topical offiction. It is under these circumstances that the loss of 6 or 8 ounces of blood

the way the transfer with the first the the the Many fred the second of the second of supplied the and the second of the second o the state of the s And the state of t And the same of the same of the same of

by cups applied to the oide, sturnum, or breast, produces on the disease the most beneficial importation. I have never been better satisfied of its beneficial operations than I am at present. But when these mains cannot be attained, which often happens in the country, dry warmth or formentations may be substituted with utility. The best means of applying heat, is by bags filled with heated salt, ashes, oats, corn, or more such article.

As yet I have said nothing of purges in this disease, a remedy so useful in active inflamation. But, as I have previously more than once Stated, the pulmonary affections, in a greater or or less degue constitute exceptions to this general rule. Not one of them will bear copious evacuations from the bowels, & as relates to pleuring, particularly, all that is to be done, is to help the bowels soluble by mild layations, as castor oil, or the neutral salts.

Much more confidence has always been reposed in diaphoreticks; & reasoning on the nature of the case, we should, induct, be led to the conclusion that they are particularly well suited.

Leader in the first the said t perfect on the first property of the still abition State of the State land to the second of the thirty of the strength of institution to had not been a some believe and no will will no Then developed a very married to be a selectify and a flower with when we have the the water was and some and to solve a de a contrata de como de la landa de de la desta de the way of the first of the the way to be the second so the sharmen has been to the wife by as to the same the last wife and the his miss winder at which was a comment ask in the newlicel rather in a coloni di secono in mali di mano con il secono di la considera di la conside which is willing in the reservoir to the surremany on the I will be the second of the se The consideration which the is an investment when he will

But experience has taught us, that, except in the forming stage of pneumonick inflammation, they are useless, or even manifestly injurious. My impussion is, that copious sweating induced exactly at the time the attack commences, will entirely put it off, or very considerably alleviate its violence. Of the diaphoretichs employed in the early or forming stage of the complaint, the one chiefly depended on is the asclepias decumbers, or plearing root. It is now nearly a century since this root was introduced into practice, & the whole current of subsequent experience greatly tends to confirm the early attestations in favour of the remedy. My experience with the article under such circumstances, enables me to speak with confidence of its powers. As a diaphoretick it is distinguished, to a great degree, by the certainty & permanency of its operation; & it also possesses this valuable property, that it produces its effect without raising the temperature of the surface & thus creating inquietude & restlessness. On this account it is well adapted, not only to the forming stage of pleasing, but also to all inflammatory complaints. During the progress of the disease, however, diaphoate be when his thing the list that the think is a little the just of the intilial copieties thinkerin Red and my paragraph the undefried dedinishers, a plusting week in received the frequency than will be which will

retichs should rarely, if ever, be prescribed; and only such remedees should be resorted to as are suitable to cooperate with V.S. in directly reducing the force of the circulation. Combinations of antimony & specacuanha with nitre or calomel, are usually selected for this purpose, and Shough they are not given with the view of creating nausea, yet I am not aware that a stight effect of this kind is productive of any disadvantage: It has, indeed, a contrary tendency; & by umoving the stricture about the chest, & promoting expectoration, it may be beneficial. As soon as the cough is loosened, I a free exputoration has appeared, you may consider the disease as broken, & resort to the demulcent drinks I the cough mixtures enumerated on a former oceasion; I in every respect treat the case as if it were a catarrhal affection - The demulunt drinks & cough mixtures, mentioned under the head of cutarrh, are equally applicable to preumonick inflammation.

But sometimes it happens that, after the violence of the symtoms has abated, a tightness of the chest; a hard, dry cough difficult & penurious expectoration, & some slight pain

of the invariance and then the his cloth at the properties we the highest to breeze was a provide the decords on it will a good a The said the time to the time to be a selected to the time to the said to the time to the said to the said to whether and the second of the second was the second to compet the Alexander of the reservois the die the fire the set the secretary assisted that he had colours in this he desired desir het tot energe markener en an hanne manden the little of the state of the same of the state of the state of A regional character in which have commenced to with common at the first in the location had an about all the think the

still continue. In the cases where this occurs, I have seen nothing so useful as combina tions of opium, ipecacuanha & calomel in the quantity of go ss each, repeated at stated intervals. Even if the medicine should excite salication, which it sometimes does, this can be no objection to the practice; but, on the contrary, it more commonly exterminates every vertage & remnant of the pulmonick affection. I do not know whether it would not be predent It useful practice to induce a moderate plyalism after the violence of the inflammation has been subdued by the directly depleting umedies. A salivation would obviate a relapse by doing away the predisposition to the disease : & after having accomplished this effect, would quarantee the system against pulmonary consumption, hydrothorax, & other pectoral complaints.

My practice in ordinary eases of inflammation of the lungs, I have now detailed to you. But the disease assumes a variety of forms, and differs greatly in the degree of violence. It is impossible for me to particularize all the modifications, & to give a detail of the treatment appli-

+ This is a disease of winter x so windent is the headach, that it has been denominated pluring of the head, o A nauseous tatte.

ing you general rules, & leaving the rest to your own experience & sagasity.

Bilious Pleurisy)

There is one variety of plearing very properly designated by the title of bilious, which so often occurs in our country & so often proves fatal, that it must not be altogether overlooked.

To all the characteristicks of ordinary preumonich inflammation are added, in this case, many of the symptoms of the common autumnal bitious fever of our country. It is autompanied with headach, red eyes, a turned countrance, much gastrick distress, a violent vomiting of black bile, a dark furred tongue, & pain in the hepatick region. It differs also from the ordinary forms of pleurisy in having less activity of inflammation, & in not bearing to the same extent direct depletion. In the disease usually presents itself, the system is often manifestly depunsed by one or two bleedings. It is the common practice in bilious preumonia, when this hap-

Bilinin Minning the interest of the second the second that the second to t of me level to the man some standard of the district the it de Heart College I to a new find a new illier will be looked to be a straight the set the street to be a second with the the second of the second of the second of the second of

pens to desixt from V.S. I after having evacuated the alimentary canal by emeticks & mercurial purges to follow these who by draughts of the infusion of Serpentarias. This last medicine is given in order to excite & keep up for 12 or 24 hous a copious persperation. This article appears to be peculiarly well adapted to the case on several accounts. The believes pleurisy is most commonby met with in miasmatic countries where intermittent fevers prevail & retains to a certain degree at least the intermittent type. The serpentaria which is so excellent a remedy in this form of fever, must also be useful in the plearing of which we are treating. Inake root, moreover, as you well know, is among the best remedies for cheeking believes vomiting. Besides, while it fulfils these indications, it is also an admirable touch & disphoretich, & is calculated to make a new, permanent, & salutary impression on the disease. For these reasons it is, that by the common consent of practitioners, not only in this section, but also in every part of the United States, surpentaria has been so much employed in The second stage of believes pleurisy. But it often happens in this case, that though

* A salivation at this period is useful. to occomplish a nadical cure

venescetion is forbidden by the condition of the system, still some difficulty of respirations and not a little uneasiness about the chest remains. To do away these affections it is proper to resort to topical depletion by leeches, or, what I think still better, by cufes. After a sufficient quantity of blood has thus been detracted, you may assort with the greatest prospect of success to blisters made large enough to ambase the whole breast. By pursueing this course of practice, you will generally find that this species of pneumonich inflammation, is quite as manageable as the common forms of pleurisy, & peripneumonia.

Peripneumonia Notha.

We have now come to the consideration of perepresentation of perepresentation of perepresentation of hereback difference of opinion has always prevailed, both as regards the nature & treatment of this disease. The fact is, that two diseases differing in their nature & requiring, in some degree, opposite remedies, have hitherto been changely confounded under one

1826. It. gave this in 20 ourseen + Alls which may be coloured by Blown Insched similarly affected Brann is enjoyed with Blood compressed to the second the first frate was a surface to the first and the second s New Filth Control of the State of Control of there is the many addition to the way of a said of the house which at the source with the shine + Lungs of a dark how are of a compant roled consistence, Perponentia Within. the state of the second of a construction of the property of the second of The contract of a grant was not and a second of the second of the the state of the s in the property that the first way on you in

general title. The first of these cases is known + by the name of catarrhus nothan or catarrhus suffocations. It commonly attacks persons advanced in life, or of a feeble & debilitated con-Stitution. This disease is distinguished by the suddenness of its onset, by the painful and laborious respiration, by a weak & irregular pulso, & by a protigious accumulation of mucus or phlegm in the bronchia, which the patrent is unable to discharge. The surface is cold & damp, & generally some lived shots make their appearance : There is little or no pain in the chest, but great tightness: Sometimes this appression comes on periodically like asthma, producing, in some cases, even an atter loss of voide. Disections show the bronchia filled with fluid, as pus, mucus, or coagulable lymph. There is seldom much inflammation of the lungs, though sometimes the pleura is affected; &, occasionally, the inflammation extends to the liver stomach and peritoneum:

The prognosis is unfavourable when the attack is violent, attended with great appression at the chest without expectoration

The pathology of the disease is this: The lungs

* There is inflamination of the murous membrane living The air cells, Dr. this bears to extraviation Hence dy offmen &

being filled with mucus, the blood is unable to circulate through them to become decare-bonized.

St generally comes on like a catarrh, with quest wheering & not much spain, cough, or expertonation.

The immediate cause of these symbolis is an extreme atony or debility of the pulmonay organs. Moderate V.S., if the system be
not too much prostrated, is here very serviceable. But it is always necessary, under such
circumstances, to be cautious with the lancet,
N never, at one time, to urge it to any considerable extent. Cups often prefually.

If V.S. is not at all admissible, or Though rerouted to has proved unavailing, emeticks +
are to be administered. Not a little a little advantage is here derived from active vomiting,
as by means of it we disloge the morbid congestions of the bronchia & thus relieve the other
affections. Either ipecacuanta, or white vitrid
should be accepted for the purpose. Each of them
is characterized by great promptness of operation &
by other properties which render it peculiarly well

+ reliving the inflammation as will as

After the operation of the emetick blisters, large enough to cover the surface of the chist, thould be applied. They often prove very useful, by imparting tone to the lungs; & , though not adequate to the entire removal of the more violent symtoms, they hardly ever fail to induce an infinitely more comfortable state of things.

oppression, I we are altogether precluded from the use of the lancet by the entire debility incident to the case, local depletion may be substituted with signal advantage. This is to be accomplished by cups of leeches, the former of which, I think is decidedly preferable. Here, as in other pectoral complaints, the cups are to be applied to the side, breast, or back.

Contrary to the practice in most of the pulmonary affections, Opium in this case may be feely administered in all the different stages. Never, I suspect, has it been productive of harm; & I have had reason to be extremely well pleased with its effects. Given by itself it eminentby beneficial; though a more common practice * R. Lac Ammon. 3 viij

Orymel Squill. 3 ij

Paragonich 3 ss Son 3 ss.

or

Nitrich acid 3 j

Water 3 viij

add gradat. Go Ammonia 3 ij

Paragonich 3 ss

The dose of each is a table shoonful.

Fumigations also very good. See page

Notatile alkali given in the form of julop.

Pour a pint of bioling water on 3; of the balsam of John & let the patient inhale the vapour.

or pour the water on 3; of the Turpenties & let the patient inhale the wapout. bise Therapen

thusk and assafested a in Case of I haven

x From the dual of supporation.

expectorants, as squill, gum ammoniach, volatile alkali, reneka, balsam of Tolu, mush & assafoctida, with the other balsamie articles.*

But in the other form of the disease denominated peripreumonea to which I before alluded, the lungs are engaged with blood, not with mucus or phlegm, as in the former instance. Indeed, the complaint should be considered as a pulmonary apopleyy, & managed accordingly. This case also comes on ouddenly, so much so as sometimes to exhibit no premonitory signs by which it may be apprehended. It is most aft to attack persons who are debilitated by debauchery; Though sometimes it singles out as subjects of its attack, he young, the robust, & the temperate. The attending symtoms are such as might be expected from the condition of the lungs; wir. interrupted & laborious respiration; a dull heavy pain in the breast or side; a flushed, tumid countenance; a weld expression of the eyes; great anxiety & restlessness. &, when the attack is particularly whement, a total inability to change the posture; the patient

* Pulse full, slow, interrupted & holding, & easily : compumble

not being able to be horizontally, & requiring to be proped up in bed.

After This detail of the pathology & symtoms, we can have no hesitation as to the course of treatment. Every circumstance indicates the propriety of prompt & most copeous V.S. Nat less blood should be evacuated, than in congestions of the beain itself. The case, indeed, is so urgent, that relief should be afforded befor the closure of the orifice in the vein. I have known 60 ounces of blood to be withdrawn at once in paripneumonia Gages of Shis complaint do, however, our when depletion by the lancet cannot be safely resorted to An engargement of the great viscera, especially the lungs, takes out of the general circulation so large a portion of blood, & confines it so closely in the organ itself, that any dimenution of the quantity still circulating, is very sensibly felt by the system. This remark could not be better illustrated than by the disease before us, vir. apopleyey of the lungs, in which 5 or 6 pounds of blood are accumulated in a half stagnant condition, or at least not so rapidly circulating as usual, which may be considered as so much taken from

an emetich & blish. and I do not have Later Market and all the said and a second

The body. Here the abstraction of 15 or 20 our. ces would sometimes depress the system beyond the powers of reaction, & induce syncope or death itself. It will be prudent, therefore, under these circumstances, to draw away only a small portion at a time & then ouspend the stream, to watch the effect with the view of ascertaining how the loss may be boind. If you find that the pulse is invigorated by the flow, & that the deptim still possesses restorative energy arough to react, you may allow the blood to flow anew. Again pursuing the same round, you should continue till you have taken sufficient to accomplish your views. On the contrary, if you find that the patient sinks under the loss of blood, you are to desixt from further depletion & resort to other remedis. Topical bleeding under such circumstanas, will prove singularly efficacious. It should be done by cufes as I have before described. As soon as sufficient depletion has been effect ed, whether general or local, it will be proper to administer + large doses of Opeum which tend much towards equalizing the circulation. To promote convalescence, & abrite the danger of a relapse, blesters should be largely applied to the chest.

x 3j I thinh a.c.

ups

unin/s

thister de

As an auxiliary means in either form of pneumonia, the patient should be directed to inhale vapour into the lungs, especially if the ease is distressing & intractable. Even the steam of water is useful: but the efficacy is increased by inhaling the vapour of some article more stimulating in its nature, as ether or balsam of Told. Of the latter article, take 31 & odd it to a pint of water. Then should be indoed in a tea pot & the vapour inhaled shrough the shout. The fumes of terspentine or rosin are also highly beneficial. They art by rousing the lungs out of their topid condition & enabling them duly to perform their functions.

Cynanche Frachealis.

Continuing the history of the active affections of the pulmonary septem, I will next direct your attention to cynanche trachealis.

To this disease various other names have been applied by the different writers who have treated of it. It is called suffocatio stridula, angina holypora, asthma infantum, cynanche stridu-

Hiver comption heaves. Cymhn melinhis la, angina spidemice, morbus strangulatosins, & in popular language, crowp, or hives, the heaving of the lights or lungs, the choak or stuffling, &. The list nosological title is, Tracheitis. It clearly disignates the more ordinary nature of the complaint, & at the same time gives uniformity to our medical nomenclature. It corresponds with Pluvitis, gastritis, & all the other terms which are applied to inflammatory affections.

Croup has commonly been considered as disease of modern date; I the credit of having originally noticed & described it, is accorded to pofessor Home of Edinburgh, whose publication appeared about the middle of the last century. (1765) Turning over however, one of the earliest volumes of the transactions of the Royal Society of London, I find a very distinct account of the disease, illustrated by dissections. The writer, who was an obscure practitioner, describes it as an entirely new complaint, which had suddenly appeared among the children of Cornwall, committing very considerable rawages. It is also said to be particularly noticed by Martin Chisi, an Italian viteo, so early as 1749.

+ I presume his disease to have been Cynanche In a dranced life.

Crowp is, for the most part, confined to the early period of life, embracing the space be liven the first & fifth year, & affects chiefly children florid & robust. But I have known it to attack infants within the month, & also adult subjects. The illustrious Washington is said to have died of this disease. Two ladies of this city, who are now nearly in the meridian of life, I have attended in repeated attacks of croup. So strongly, indeed, are they predisposed to it, that they hardly ever escape when exposed to the causes. The same liability has been transmitted to all their children, who are now nearest memous.

By some writers, however, it is asserted that crown never occurs about the age of published. Now, That it is a raw event cannot be denied. Now, perhaps; is the fact without explanation. The harts constituting the seat of the disease, undergo at this period, a change, as is winced by the new tone of voice acquired, which change enables them to usist those causes, that in the previous otale of delibity & relaxation of the largery, more especially, were invited to such morbid inospectorious aggressions. Cases of this kind, however, are still to

: 4x . Thing dituation on the sea-forced alalle Keelantoo of

be considered as rare & anomalous deviations from The ordinary course & character of the disease. Naturithstanding what has been so confidently alleged to the contrary, there is not the slightest wason to believe that crown is ever propagated by contagion. It would seem to arise chiefly from the influence of a moist & cold, or austine at mosphere, & hence prevails more generally in the Spring than at any other season, & near to the sea, or other large collections of water, rather than in inland positions. By some writers it is affirmed occasionally to occur as an apidemich, & perhaps This may be true. It is certain that the complaint is endemial to particular places, & within very narrow limits . This is particularly the case as regards Edinburgh. It is stated that the disease is hardly known in that city, & this I believe to be the fact. But a little sea-port town, which stands about a mile from Edinburgh, is so disolated by the ravages of crown, that it is almost impossible for the inhabitants to raise their children . I am told that the same is the case as regards Baltimore. The complaint is little known in that city, while at Fells-point, which bear to Baltimore The same relation that Lith does to

6 Crown is sometimes a symptomatic or secondary disease produced by Worms This chave frequently observed. Dry Barton confirms this fact. One of the most violent cases of Growth which of have even witnessed was entirely releived when the child boided a worm. Crown is also at times consequent whom mover-loaded domach.

Edenburgh, it is extremely aft to occur. Browle has been divided into spasmodick inflammatory, & not a little discussion has taken place on this subject. It would seem to me, that in all cases where it suddenly attacks, it must partake of the nature of spasm. Time is required to induce inflammation, which consists in an altered action of the ressels of a part effected comparatively by a down process. No cause, however, more rapidly promotes it than the disturbance occasioned by spasmodich colors.

The early agentoms correspond with this views of the pathology of croup, & dissections fully confirm it, showing, where death promptly takes place, none of the phenomena of inflammation. But, under other circumstances, where the disease slowly approaches, or is the effect of inflammation of other parts, extending to the trachea, as cometimes happens in measles, searlet fiver, & most of the anginose affections, then it is of a contrary character, & post morter inspections have revealed exactly such appearances as might have been anticipated.

Even, however, admitting the distinction con-

Ended for Epocation with a little million how horsen it markely by the man pringer and he the and the foreign the for the land the less that you are the state of the s difficulty beneficioners and the exchange have come onder and the and of men all the series here it marginales was been the the desired or the marked as a land of the said o the site of the to see the second for the shall deplot on the second second

tended for, I am not aware that it leads to any practical difference. Whether spasmodick or inflammatory, the directly dipleting measures will be found equally offectual in the treatment. No remedy is so prompt in the reduction of spasm of high action as venesar tion, I none so unavailing or inappropriate as the antispasmodick substances. On this point I wish to speak emphatically, since some of the European as well as our own writers of high authority, entertaining other notions, have labound to establish an opposite practice, consisting in the use of mush, asso fatida, I opium, than which nothing can be more false or prejudicial.

Crowp variously makes its attacks. It commonly comes on at night, & sometimes without any premonition or exposure to its ordinary causes. The child wakes up with the hoarse,
dry strictulous eough peculiar to the disease,
which has been aptly compared to the sharp round
of the barking of a dog, & in other instances to
the erowing of the cock. Concommitant with
this, there is a distressing difficulty of respiration,
menacing, in some instances, suffocation, with a
flushed face, a quick irritated pulse, an unusual

A series of the the southern the for the last the think has waster and the second second second second second exception of the second of the second of the second of the The second in the second of th sual degree of restlessness & anxiety, with a sort of indiscribable wretchedness. The child will not remain long in one position, nor can its complaints be in any way appeared. It whines, & cries, & feets, & seems to be exceedingly uneary, without suffering any very position pain.

Cases of this nature are probably dependent on spasm, & terminate fictally in a very short time, when relief is not afforded. But, on many occasions, the disease advances gradually, with the ordinarily catarrhal symtoms, such as heaviness, suffusion of countinance, defluctions from the eyes & nose, a harder & more shrill cough than usual, & with various deques of fever, which, with the cough, is always exacubated at night, & especially after the child has slept. Completely formed, there is no material difference between the two species of eroups & henceford their progress is nearly, or perhaps exactly similar.

My mode of managing this disease is excudingly simple, & has hitherto proved so successful, that I always approach it in the early stages, with a greater certainty of curing

+ It is worthy of your recollection, however that · combining ipecar & calomel will quatty eneran its emiter effect. * + Diagnosis Prognosis Outhology the aller that I was to see you to be of you got you the mount of it a beight level with The state of the s to describe the the state of th make the same of the same of the same of the same of Super of the superior of a give in the said in it than any of the other complaints of infan-

Called in the commencement of the attack I endeavour at once to puke the child very breely, & for this purpose prefer the tartarered antimony, given at short intervals, as being one of the most certain & powerful of The emetichs. At the same time I direct the child to be put into a warm bath for 10 or 15 minutes. This is a useful remedy. It early fails to promote the operation of the emetich, & will, indeed, alone, sometimes cure the disease. The emetick, however, not operating, or if after its operation the desired effect be not realized, I then bleed copeously, & repeat it & the bath. An attack must be extremely obstinate if it do not now yield. Nevertheless, it will occasionaly continue with little or no abatement, & under these circumstances, I resort to topical depletion by leeches or cufes. The eups should be applied to the sides or back of the nech, as, when placed anteriorly, they will by pressure & suction, generally impede respieation, & sometimes endanger suffication, Twee I have seen the distress from this mistake

+ Where the case is purely spasmodich & friend of flammel moistaned with spirt temperation & applied to the Shroat will sometimes were the discon in 15 or 30 minutes . Aug malant. Markey in late itee rape . Hart first of Montenant frame of the minima pros a finishment of medical and the principles of William Hiller Michigan William & Spring the let let be feel wife a walker touther for 10 to this investigation the welf hillered all willy queles his formation of a special of the strategic of the well and rate about that the contented to season was employed about the open by and the the expellion the desired offert he not welver Man lettered coffeedwarf Harland it is the hardles I they altered superate the oxfraint of all there is of it do not able die for the the hold in the enducated warmlines to the little of a reported more to Production lives of the consideration of the good a topical diplomen in langues of with The teaps when the land file it to the within the factor of the mock, as, when placed a directly they wh the bushess Kinderen governtly instead as the when I constoned indange in refundion. choice I have view the destroit from this is white

so violent, that I bilieve death would have to ken place had not the culps been removed. At means of local bleeding, leeches are very much to be prefered in such cases. Next I put a sinapism or blister over the throat, it in some instances, these may be made to precede the for-

mer applications. *

The foregoing remedies failing, or where the symtoms become so alarmingly violent as to demand immediate relief, I bleed ad deliquium animi. When pushed to this extent, I may almost day, that V.S. is almost invairably successful. As yet, I have never known one instance in which it failed. The moment that syncope takes place, the hoarseness, cough, impeded respiration & fever, disappear.

This valuable suggestion I derived from Dr. Dick, of Alexandria, one of the most original, bold & successful practitioners of our country. It has been claimed I understands elsewhere, with what justice I pretend not to determine. That however the practice was adopted at least 30 years ago by this distinguished physician, is unquestionable.

To prefer small & repeated bleedings at this

down the distance of the same of the land to damen St. Port of Williams advanta is about the appropriate of the first the server Mary and the market for the first first the the things have reported in the state of the same by the first of the same of the same of the same of to domain in which while I theed all till quin amin. Ale fill the file Monday when the State of State of States water severely to the of their man his one making out willish it laite. The win dat durante letter street Me hoursing was in tide to specification & from the his moun white and will a secretary of the will be with On Dick of alling time and I denot latel & survivole to the of the sind of such country. It has been observed the property decisions with a lead within I have in a will be determinate the or hard and the propolers was not the and the selection in the state of the selection and Edulation to the second of the second to make almost the reliefed there of my while

period of the disease, as is advised by one of the most authoretative of our own writers, is a pernicous abuso of an important remedy. It may be laid down as a rule, to which there are few exceptions, that in acute diseases, where V.S. is at all demanded, it should in the commencement be so copions, as to produce decisive effects. The rational of the measure seems not to be well undestood. Detractions of blood in small or large quantity operate, as remedial processes, very differently. The former abates action only, while the latter alters it, or so for reduces it as to enable the natural energues of the system to subvert or overcome it, & to reestablish health. Of this principle, we have itterstrations in pleurisy, in fevers, & in many other affections, where a single profuse bleeding, timely recurred to, arrests the progress of the disease.

Conceding that the loss of blood is necessary to as cure, it will be proper under the circumstances stated, to pursue this course, even where we have grounds to apprehend debility. As small bleedings require to be often repeated, the aggregate of blood lost becomes ultimately greater, & more exhausting in its effects. Besides which, as there is less structural or functional decangement, the convalisance is more rapid & complete. Whether, therefore, with a view to

+ alone or in the state of combination which I mentioned a few minutes ago.

often aproporable of any application of

544

a prompt cure, or to economize the resources of the constitution, or as a security against relapses, or imperfect recoveries, this practice claims a preference. The disease being broken, which is shown by the removal of the preceding symtoms, & even still more by the restoration of the natural susciptibility of the system to the action of medicino, Iadminis ter madiciono calomel, not in small & repeated doses, as is more generally advised, but in the largest possible dose, in order that it may speedily I most actively purge. In this particular state of the disease, a thorough opening of the bowels canwies off the linguing symtoms, obviates a relapse & confirms convalescence. But should cough or hourseness, with tightness of the chest, & deficient expectoration remain, I employ the polygala Senega as an expectorant. It is in extinguishing the remains of croup, that it displays, I think, not the least of its valuable properties. Doubtless, however, it may be used at an earlier period of the disease with advantage as an emetich, though still 9 prefer the tartarozed antimony. +

The practice as here detailed, is applicable chiefly to crown in its forming & early stages. At this period the disease is restricted pretty much to the upper por-

X affection The territor of the present of depression is the the the interval of the first of all the seath in the of the system of the reduction of order to the bed reader in termit with med the testert not spile principality as a second of the fact the s in I provide have been and in the the way the the Grand interfly friends. The three particular that the the division a thousand got absorber of the land to the his of the land ing transmit out allow a lot Wer Line or woodles were . But thought will wingle at bearings and he lighted in the charles the the color of probablisme with the probably gold son ega as an expecteened, It is in extended in the warmen of continued in the play I hick not distributed at the instead of properties. Durchlines buck it die feb laced it in contice house it it the assissed a stranger as an involved Hairyh Miller section the lander were a water money." the fourther as him detailed, in applicable shall is be some on the bounding is early stages. The Miles is the discourse of rest woll at the second to the second

tion of the backer, & consists either in a sparmod with of the glottes, or inflammation of the membramous lining of the laryny. But, permitted to continue for 10 or 15 hours, & sometimes even in a

shorter interval, it extends itself to the bronchia, &

into the substance of the lungs, producing sooner

or later wast collections of mucous & phligm, or ex
udations of coaquilable lymph, or an engagedo

state of the pulmonary organs with blood.

The symtoms at this critical conjunction are materially different. Now we have all the manifestations of an interrupted & defective circulation. The lungs loaded & opposed, very imperfectly execute their functions. The complexion is mottled, & the cheeks have a circumscribed flush, with some mighture of lividness. The ages are prominent & inflamed. The pupil is often widely dilated, attended by an expression of countenance wild haggard & ghastly. The respiration is exceedingly laborious, with a full & disturbed pulse, or, the child sinking under the disease, has its breathing rather more transpil, with a weak & irregular circulation.

The syntoms in These different states of the lungs are so analogous, that it is not easy to establish, in all instances, satisfactorily, a diagnosis. But though

+ Frequently prevails epidemically as in white of 1824-5 affecting a golf as well as children. Bronchite distinguished from crown by Milying ed in

difficult, it is a point of some consequence to be determined, as the treatment in every respect is not precisely the same. To arive at a just conclusion, we must take into view all the circumstances affectaining to the case in its several stages, as well as the existing appearances.

Of the nature of bronchitis, & especially of that form of it, which resembles catarrhus suffocations, or in other words, when it proceeds from collections of phlegm, or mucous, or lymph in the bronchia or pulmonary cells, I have mostly found that the case has had its origin in catarrh, & which has run a course more than ordinarily protracted. There is also at the time quater or less discharge from the lungs, or at least evidence of heavy accumulations of matter, with an inability to throw it up, & to which may be added, that the pulse is langued, I the our face cold & clammy. But occasioned by sanguineous congestion, however, oppressive the dysproca may be, there is little or no cough, or pituitous discharge, &, what is very distinctive, an en-tive absence of the wheering, so general a symtom in the first case. The respiration, however, is singularly hurried, parting & laborious. The pulse too, is full, though irregular & disturbed, & very readily com-

+ But tow thom full of juice of garlies a honother emetic in torfaid dates of the Homael sh cymanche tracheatis. tehensale very all there is interested Up the dealers of households & who will all the to an of it which were the forther to their to select it product their will all min other war phlyger or meers or light in the burnelin or philingway with, I have wintle latered that the the rien las had it women in cultinal be thinked by which consider man them and Individe hinders test . The other les at the hime quotes or has discharge but the himse is at list without I have will would be modles with neveralities to them it will the hadroney k which for first or from & the surface cold to claimer of the securious y be there is little in no comple or he his alarm of his electron to receive the list were: The wife when he was A Mount all thought are in the Market griss.

pressible. Cases of this sort, moreover, are oft chiefby to occur in florid & plethorick children, or, as I have seen, in directly the reverse, the weak & valetudinary, & generally this condition is disclosed at an earlier period in the disease.

The indication now, in each shape of croup, is to relieve the lungs of oppression, & to re-establish a few & equable circulation. To affect these purposes, the child should be placed in a warm bath, & while there, copiously vomited by an active & stimulating emetick. The sulphate of time has been we ommended, & is useful, though the tastarized anti-mony, with calomel & ipecacuanhas, or the juice of garlick or onion, is preferable. These latter are very certain & active emetichs, & will frequently succeed in exciting vomiting when the officinal articles have failed

But in the second case, having pursued the same measures, we are also very cautiously to draw blood-taking away a little at one, suppress the flow, and watch the effect on the system. Being beneficial we may renew the bleeding from time to time, till our views in this respect in this asspect are attained.

The newsity of such extreme circumspection in the use of the remedy in this case, is readily explained.

of its should be the thing in a recover buth & will how copionaly vopriled by an action with in lever constict . The sulphale of hear has him inguished & in world that it to testimized water promos with colored & speciellander of his genera of equilities con in perforable These With and Waster and like Wise the Sugar will a rest in eventing nomiting when the object which

Engargement of the great viscena, & especially the lungs, takes out of the general circulation such a large portion of blood, & confines it to closely in the part, that any considerable loss by V.S. is very unsibly felt, creating in some instances prompt & insupposes irreparable exhaustion.

Where the lancet is altogether forbidden, cups or leeches may be substituted, & will be most

serviceable on the back.

In this species of the disease, the vesitating applications are highly important remedies. The blister should be put over the breast, a if the case be so urgent as not to admit of delay, some means of more prompt vesication may be resorted to, as cloths wring out of hot water, or what perhaps is better, pledgets of lint dipped in a decoction cantharides, made with the spirit of turpentime.

The subsequent heatment consists principally of the pretty constant use of eschectorants, and for this purpose, the antimonial rvine, the opposed or vinegar of squills, the decoction of seneka snake root, when alone or in combination with the carbinate of ammonia, will answer exceedingly well. The hive syrup of Profes-

1.40 programmed the grant warmer, I when the ing which and at the your tet and like land a large precious of televal & continue at m in the facilitation assertment to have to t. d. is only separtly felt significan es prompt & mangadow withoutle extraortion. When the latered is alwayether to bidden cules leveled and be substituted, I will be most brinceally on the back. To this spice of the distance the westerlines depleations are happly inspections amoralies. The thister should be full were the best the of the case the so inquit as not to admitted the long done because of more properly norecliers was be associate to a relation arising and of hat water, on that postable is better pladagets of last differe in a describer variation inche with the spirit of turpentine. the a location be destroyed woods from whatle at the hall see when we of expectionally and This hard on the antimornal wave the over met in vines ar of squilly, the decoclose of remeter enchances where alone or in continue и и в вы сапвитава и поторожний with the squap of the

sor Goye is here a very useful preparation. It is prepared agreeably to the following formula, & the dose is about a tea spoonful for a child of one or two years old.

Boil together over a slow fire until the water is half consumed - Strain of the liquor & add Strained honey . . It is

Boil them together to six pounds or to the consistence of a syrup - add to every found of this syrup, sixteen grains of laster ometich - that is, one grain to the owner.

ces from the liberal use of calomel. It all times an exceedingly active expectorant, by which I mean whatever enables the bronchial structure to disengage & expel an oppressive load of matter, it sums, under these circumstances, occasionally to operate with really a specific efficacy. There are some indeed of the aespectable practitioners, both of this country and of Europe, who trust almost exclusively to it.

Calomel was originally employed in crowp by

100000 har the He of the of the water of the lease 1111/1/ leste in Mars had worted the to Morris of the land of the the Major of Sander of their

the late Dr. Kuhn of this city, who prescribed it so early as the year 1770. The Scotch physicians are devoted to the remedy, & consider it almost infallible, or such nather seems to be the opinion of some of the most distinguished of their writers. By one of them it is said, "that in every case where it is amployed, previous to the occurrence of the livedness of the lips, & other mortal symtoms, it has completely succeeded, both in curing the disease & in preventing any skock to the child's constitution" His manner of exhibiting calomel would appear daring, even to rashness, were we not acquainted with The insensibility of the system in this disease to remedial impressions of every description. To a child of two years old, he has given whowards of 100 grains in twenty four hours.

With Dr. Hamilton, to whom I have alluded, the Professor of midseifery at Edinburgh, I am aequainted, I from his high standing & character I entertain not the slightest doubt, with some allowance for an undue enthusiasm of expression, of the veracity of these representations. Nevertheless I will not take whom myself to support or wearmend his practice. The mode which I have suggested of managing this disease, at least as it appears in this country, I must

a he strong the second the string to the string the string the string according to the same of the state of the state of the same of the maintail of her down mile the finish the free faith the adea with the fillesplication down to I do made to the a total and the of the state of the ence of the last their section of the the factories and and and the less at the lite; " will, marke to definition to the about Helder war inted for the coming the driver thing handing any shock to this ort for modellittle !!! the mounted of explainted and colored and the application the done in all simples and about a facility of the little of the facility as level if for a horizon. to the Do Himilton to where I have a to the let the and the about it it is not not come allowance who is in the common of any water on all the discussion of to since in which it has a present or of mountaining

Think decidedly more effectual, & certainly less has ardous, as well as repregnant to popular prejudies. In the preceding history, I have delivered very concisely, some account of the hathology & treatment of crowp. It results from what has been said, that I consider it at first, as a opasmoaich or inflammatory affection of the laying, & in its subsequent stages as one or the other of the forms of periprecumonia nothar either a congestion of the lungs with mucus or lymph, or with blood. The former I believe to be by far the most common occurrence, or usual shape, of the disease.

The practice appropriate to the several curum stances of croup, I have also endeavoured to point out with some degree of precision. It will be pacined, that in relation to the latter stages of the disease, while I maintain that the lungs are affected differently in some cases, the only distinction in the treatment suggested, is the limitation of bleeding, to the apoplectic condition of these organs. Though I hold the other state to be essentially bronchitis, & hence originally of an inflammatory character, still, by the early depletory measures generally pursued, such no longer exists. We have on the contrary at this time, as its product,

des delle son e all about & residente les has The perfect in properties . 1 me the Succeeding to large of march Prince Technical States of the States mine That Trend when I yet heart, see a chairman in english markey expended on at the harrown " to be of expect the get as and on the adjust of the for of het freezeway welling a they a strong alman of the listen with minute ligaged would shoot . The Sometile I delived to be lander the short morning winners a shart the se the planter. I the problem appropriate to the serviced there of worth, Those a portude ground to habet out with some to get of previous. The will be her covered that in chalery to the Cather despersa, the livere while I required and the lesing one of belief differently in some case, the only disting look in the heatened they with it the hour lation of bladeria to by shippede confilm of these gange. Though I little the Men Hote to be executed by be some after I have a originally of up inflamence considerable to the day the exile stable to improve as you want here it seek who from willia the done so the contrase it his time as it it had in

effusions or exudations obstructing respiration.

Met wherever there is reason to suppose a remnant of inflammation, lopical bleeding, at all events, may be, & ought to be practiced.

What on the whole, I wish especially to call your attention to, is the view that has been presented of the nature of crowp at an advanced period. It is interesting, not as mere theory, but as leading to the practical improvement on which I have dwelt. Though not generally entertained or adopted, it is most fully established, as well by the phenomena of the disease, already noticed, as by dissections. To this point, we have to a certain extent, the testimony of Cheyno, who has written with ability on the disease, I the still higher authority of Bailie, not to mention other names of less distinction, all which has been confirmed by dissections, conducted in our own country.

Not a little is said of the existence of a membrane in the largest, & to which so much is ascribed in occasioning death, that an operation has been proposed & even practiced for its removal. That it does occasionally exist cannot be denied, though I suspect sarely, as I never met with it, in my repeated examinations for this purpose.

+ I believe death generally takes placed in consequence of effection into the lungs, which prevents them from collapsing,

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The appearances I have observed on dissections relating to the larynx were slight marks of inflammation, with more or less of mucus, such as is formed by all the sureting surfaces. Why I have not seen the membranous production is perhaps susceptible of explanation. To throw out coaquilable lymph, of which it is composed, requires the vessels to be highly excited, a state which, by the copiour depletion adopted in the cases that came under my notice, was probably prevented. Even, however, were we assured of its existence, I do not know that in ordinary cases, the operation would to more than protract life. The disease at this time has reached the lungs, & hence no relief in this way could be expected. Yet it does sometimes happen, though seldown, that it is restricted to the largue, & that respieation may be so much obstructed by the membrane alluded to, or from an accumulation of mucus, as to threaten the immediate extinction of lefe. By the amoual of the mechanical impediment, an operation might be useful, I has actually proved so in two eases recorded in the foreign journals, in which relief was instantly offorded, & ultimately recovery took place. I have now in my possession a drawing executed by my friend, the late Professor Dorsey

+ Some german positers recommend Strongtatories to promote freezing with the view of their effelling the membrane representing the membrane in a position completely to intercept the passage of air to the lungs, I which, had it been displaced by an operation, as he strenuously proposed, the child would probably have been preserved.

In the estimate of this resource of our art, we ought, moreover, not to overlook the fact of the striking effect, in many cases, from the expulsion of the membrane by vomiting or coughing, & sometimes in a state of things too, the most critical & alarming. Met it seems that the opinion, on the whole, is dumed a very dispurate & precarious expedient, to be held in esserve only for the extremest emergencies, & where common measures have altogether failed.

Two causes have conspired to render croup, which is not newsparily a fatal disease, so much so, that it is placed by some writers even among the opprobria medicorum, & by most practitioners is considered a highly obstinate & dangerous affection. The first is an erroneous opinion regarding its hathology, & the second the careless & feeble mode in which it is commonly managed.

An impression almost universally prevails, that children, owing to an extreme delicacy & failty of constitution, cannot bear any very vigorous impression

Sixted to But and the will be the declarities obtended and their desirelland are with me he be with a fine of a grand of the all who has the Commission of ministry to tell place & Valuation the statement hat the opinion on the whole of the will a interpretational to pleasance apprehend to be held in is me only for the optional bushes, were you wint chiamon mianes hard altog this failed is in whise colores have constitued to white before the think is not maderially a finish discour so breaking had it is placed by some waters wood swinger the Sperched medicine, Why word prostetisher in considered or highly obstanced & dangerson affection. the feet is an inscrease of invariance sugar throng it has Madaga, Wille Jacous the failes & field winds live had it in aminoula dominante la for in the immediation about the interest he has be the the the them owned to me aprimer allower the hide when to tallote comment and any wing regarded in his property

from remedies. As a natural consequence of such an opinion, the general practice in their complaints is extremely inert, exactly indeed of that hind, which has been factiously described as observing a strict neutrality between the patient & the disease, neither

declaring for the one nor the other.

This is particularly the case on the continent of Europe. All of you know, that within the last 6 or 8 years, a premium of 10,000 frances was offered by the French Government to him who should produce the lest treatise on the nature & treatment of this disease. After all the prize was awarded to a man who recommended in the management of this case nothing but hepar sulphuris given in minute doses so as to excite vomiting & to keep wh nausea; & the writer declares, that if the practier is persevered in for 2 or 3 days, a cure may be confidently expected. This is one among the mamy signs of the low state of medical science on the continent of Europe. That at the present day, a practitioner of the least knowledge should promulgate to the world as a remedy for crowp, an article so inefficient as hepar sulphuris is ocarcely to be believed; & yet this discovery has been rewarded by 10,000 francs, & The practice generally adopted by

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those who consider the inhabitants of the new world as degenerate in every respect, & particularly in minds!

By no narrow or partial observation, I am thoroughly persuaded that this opinion, relative to the delicacy of children is incorrect. Children, I have remarked, display an uncommon tenacity of lefe, & strength of constitution. They often survive under circumstances which distroy adults. They have been found living at the breasts of their mothers who had hereshed by exposure to cold, as is recorded by travellers & other writers. They confessedly risist contagion better than grown people, & when attacked, more certainly recover, not only from diseases of this discription, but from all others, when properly treated. Nor is this all. They sustain better the operation of the most active remedies, vomiting, purging, sweating, blistering, & Jadd, without hesitation, bleeding.

During the growth of the body, the fluids, in froselation to the solids, are larger in proportion, as is distinctly proved. This fullness of their vessels & greater excitability of system, render children heculiarly liable to inflammatory attacks. Nearly all their complaints partake of this character.

and the second of the second o in the did neverted as dealer to refer the the the state when browning to him die of first which is to great I really a and the transfer of the state o large terminalization where distance in the 1 th 1 th 1 th by described it was the laid of the word on the west residence heller their growing geople Wither attribe had date of love for from the property of the first from haded . The substitute of a great for the the la sole hade the endered colorable proceed one futterfy of their wine to the and the wine to lot little of layelander near the who the real files in file ast other and to its per factories at they be he are got

It follows, therefore, that they require oftener to be bled, I may own experience convinces me that V. S. may be resorted to in their cases, with more safety, I decidedly greater advantage. No one who is conversant with their diseases, I has practiced V.S. much in them, can withhold his assent from the accuracy of this statement.

Endowed with superior vital energies, children have, moreover, very extraordinary recuperation howers. They notoriously recover more speedily from wounds, & injuries, & surgical operations, & remit with greater rapidity after being reduced, either by disease or by remedies of any discription.

It is on this account, that while there is any indication of life, however discouraging the appearances may be, we ought never to view the case of a child, in any acute disease, as altogether disherate. But still retaining some hope, to continue to minister to the restorative principle of the constitution, & were this course generally pursued, I am persuaded, that we should not unfrequently be sewarded by such cure, as reflect lustre on the art, & give to our shill a glorious triumph.

To do this, however, in the disease before us, the practice must be prompt & energetick, & our atten-

* It is often called think or thin cough, & was first described by Willis in 1650.

dance unrellitted till relief is afforded. It is as well with me, never to have a child, in crowp, till the alarming symtoms are over. This great digner of vigilance & altention are necessary from the rapide career of the disease, & not less from the externe & peculiar uncertainty of the operation of our remedies in it.

As a most formidable enemy, in all his presentations, it should be attached early, vigorously, & on the very outworks. Delay never fails to invigorate its force, & when permitted to get possession of the citadel, or in other words, a firm hold of the system, we shall find it always difficult, & often utterly impractiable to dislodge it.

Pertussis.

Norologists define pertusses or hooping cough to be a convulsive cough, occurring at intervals, followed by noisy inspiration, & returning in paroxysms which are usually succeeded by vomiting. It generally comes on abruptly like a common cold, the child having more or less fever, & is sometimes early attended with that sonorous, spasmodich inspi-

ration with the lettering of it start of the with all the course in one that we have the hard the day to the the the day they were he to white the termination to the in space Lande david Burker him his comidant to the one of Williamin.

action which is denominated whooping. But, in other cases a considerable time elapses before this symptom makes its appearance, & sometimes it does not at all hapen. After the complaint has become confirmed, the paroxypm consists of a number of short inspirations closely following eachother, so as to produce the sense of sufficiation to the beholder, inflammatory mature. When the hooping commentions, the catarrhal synttoms subside.

The favourable signs are easy vomiting, free expectoration, Ho. It frequently terminates by nunning into other complaints as hydrothoray, asth-

ma, or consumption.

When death takes place ouddenly, it generally owns from a determination of blood to the head in a paroxypm of coughing, producing apopleyy & congestion the blood often starting out of the mouth & nose. When the disease owns in very young infants, or in consumptive patients, it is generally fatal.

As to the origin of pertusses there can be little doubt. It manifestly depends on a specific contagion which, as a general rule, effects the child only once. To this, however, there are many exceptions.

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I have several times known the disease to occur twice in the same individual.

But though hooping cough commonly arises from specific contagion, it occasionally appears to depend on the causes producing epidemicks.

Not very unfrequently it is so rapid in its progress, & general in its prevalence, that it can hardly be ascribed to contagion alone.

But by consulting the various authors on this disease, you will find that there prevails much diversity of sentiment relative to its real & nature. By some it is placed in the air cells of the lungs, & in the minute extremities or large ramifications of the bronchia. It has also been located in the Larryny & pharyny. By others it is maintained, with much plansibility, to have its primary nat in the alimentary canal, from Shich a sympathetic affection is extended to some part of the pulmonary apparatus. No less diversity of sentiment is entertained with respect to the nature of the disease. By one set it is held to be presely a sparmodick affection, while another, of equal weight of authority, aserts that it exhibits all the phenomena of active inflammation. The fact, however, is, that, till very lately, we have been imperfectly

Brain no the primary seat of the discusse, neither the dejestine apparatus of Marriage is the sell is the first of the first

instructed as regards the disorder. Dissections of Those who died of it were seldom made, & hence, with respect to its precise reat & nature, we had little else than opeculation & conjecture. The subjut, however, has at length been taken who by an able & celebrated man, Dr. Watt of Glasgow in Scotland, who to an ample collection of what had been previously ascertained, has added many facts derived from his own personal observation. He conducted his inquiries with the greatest diligence I amuracy, & his conclusions were founded not onby on an attention to the phenomena which presented themselves during life, but also on the dissections of 30 or 40 subjects who had fallen victims to the disease.

It is stated by him, that the organs of respiration are seriously affected in pertussis, & very much so in the severe cases. He proved the disease to be inflammatory in its nature, & that its chief or at was in the mucous membrane of the largues, trachea, bronchia, & air cells. When mild, he determined, that it would run its course, & cease spontane ourly, without any disturbance of the functions of other parts, or even of the mucous membrane in which it was situated. But when violent it often entirely

naing while who had place. no to the disease. That the inde affected in preferring leaves and that we would have it comes it rison what I die

stage, mucus is so copiously sunted as to stop up the cells, It by thus preventing the access of air, to occasion suffocation. Sometimes leaving the micous membrane of the lungs, the inflammation penetrates to parts more duply scated, proving as dangerous as pneumonia, producing suppuration in the parenchymatous structure of the lungs, & sometimes tubercles which induce pulmonary consumption.

Notwithstanding the more correct light thrown on the disease by dissections, I have little new to propose in the management. An abundance of remedies has long been at our command, I all that we require is such a knowledge of the pathology of the ease, as to render the application of the remedies uniform & decicive. The practice of almost every one in this disease has been characterized by empiricism, from the want of principles to quide him, as in complaints which are better known.

Two leading indications obviously present themselves in the management of hooping cough.

These are 1st, to palliote present symtoms, & 2nd, to overcome the habit of persented associations by which the disease is heft up & continued long after the courses which produced it have ceased to operate.

23 definal reducations down times in the extremet dieser encence of and hard well die to the to the still of the allow I have the without him the heart of the sink down to Model have I forced with the dest of the will have delication because the form they as well not the thing he his die dan la comestado en ina dise esperable s soil and the mounique for the color land of the hole het was terrillourdonaling with Estell will or one to be I have been the first the frequencial the court is de l'éclie a com finale a material de force chaire a fair en affir an each has been characterised to the historicalise from we excelled founded in middle for a form in Chalentette haven dentitive are file to facilitate from to so within 18 2 at was in the he were all it have mired to wheater. Taught by the evidence submitted to us by dissections, as well as the prominent symitoms of the case, we must at once assent to the propriety of meeting the first stage with the directly depleting remedies. But in their administration we must be regulated by sound direction, & our practice should be adapted to the state & circumstances in each particular instance.

Consulted in the case of a child, robust, florid, & with a full pulse, I would not his itate about the propriety of venesection. This is especially demanded by the inturupted circulation in the lungs, & properly employed, affords much relief. Exactly as in other diseases, V.S. Thould again & again be repeated, if called for by obvious indications.

Of the various remedies at different periods suggested for the management of pertursies, I know none of which I entertain a letter opinion than of Emeticks. They are adapted to every stage of the complaint, & should be wheated daily, or even twice a day, for a week or two in succession. By a steady perseverance in this course, & at the same time, by using the auxilialy means, we shall generally be able to conduct the patient to a happy issue. After having freely vomited, it then becomes very benifi-

+ De. Coye's Him Syn

unschen

Emelish).

cial to make use of emeticks in nauseating doses. These heep down the fever, & at the same time, operate very beneficially as expectorants in relieving the lungs from their oppressed condition. Every practitioner, I believe, acknowleges the superiority of epecacuanha, white vitriol, & squill: Of these, I generally prefer the specacwanha. It is more limint than the white witriol, & appears to me sufficiently active for all The purposes for which it is prescribed. But it is right to state that Dr. Ruhn always resorted to white vitriol in these eases. It was his opinion that the medicine not only operates very beneficially as an emetick, but also by its antispasmodick power hievents a return of the paroxysm.

All the writers who have described hooping cough, take notice of the great tendency to constipation which occurs in the early stages. This among other circumstances led to the idea, that the complaint is originally scated in the alimentary canal. But, independent of all theory, we are called on to remove the condition of the bowels, which,
if it does not produce, certainly aggravates the
disease. For this purpose, the mild lascatives
as castor oil, magnesia, & have been recom-

miller and me or emplished now withing places that he best in the filler of the filler time which the water the second that we will the water that the water the produce of specimental when while himself is Surveyed it to destine of some collection had a the other cons basisher, The death must be the the start of the and the welf where the me as the last the section that well as the state fants for the first the so fit should be to the the the scrille, caltered in these very, if yet his while filled the med a we not with a firstle was before he as an med the lest who do to suited and which have cheeste take notice of the good to love to everell bation which are now the worth when his the alless while ordered while he the the that the the terms had a tradegraph from the at with appropriate the way the in his to me view the market and it the hand the willist. at the dealer of histories without have the will be the dedicate the his her said of miled for weelvery air a letter a che considerate sond les times elle il consideration

mended. But in my estimation, They do not answer half so well as the Mercurial purges. Independently of its purgative effect, calomel sums to exercise over many diseases, & particularly hooping cough, a peculiar power. No fact, indeed, is better known, than that active discharges from the bowels, produced by calomel, break down The force & abridge the career of this disease. So much confidence is, indeed, reposed in the remedy, that it is the settled practice of the most respectable physicians of this city, to commince the treatment with calomel. It is customary to give doses of calomel at intervals of 3 or 4 days. Whatever the ory may be adopted relative to its mode of action, no doubt can be ontestained of its efficacy. To heep the bowels open, it is always preferable to every other article.

But while we are endeavouring to make an impression on the disease by general treatment, we should not neglect the use of local remedies. Congestion of the lungs is very aft to take place in hooping cough, as indicated by the symtoms already pointed out. Not less to remove the congestions, than to relieve the topical inflammation which is known to occur, blisters are of decided

converted to the tile the with all in their salting mentioned the state of line differential Lite fred leading of the first and a second reality Delated in water of the same of the way of the Contract The same of the sa feligery police day slight marine the last before and the Continue Land of the Continue of the grant of Green 15 coloured a limiter with all The I large at Martin windles in it ill courts in the test with it to extractly . It Middle Commence Mit design of a sum of the Contraction in head was reduced an interest of the little sugar to great when will have the said to the first war will be some

also resort to beeches & cups, especially if the lungs be much engaged which is indicated by painful & laborious respiration, turned face, livid shin, weak & irregular pulse, H.

As I have enumerated, such are the remedies calculated to meet the first indication in paturnis. They are bleeding, vomiting, the exciting of nausea, active purging with calomel, & the local applications, as blisters, cups, & luches. A majority of cases, however, do not require ouch active practice. As the disease generally occurs, it is of a mild character, & remedies infinitely less powerful than those which I have enumerated, may be employed, & will be found adequate to effect a cure.

Next I am to delail the remedies proper for the 2nd stage of pertusses. In the fluctuation of practice & sentiment, the medicines employed in this period of the disease, have been exceedingly numerous & diversified. In the practice has hither ento been very empirical, it will be impossible for me to treat of it with any sort of order or method. All that I can do is to give a very cursous account of such of the remedies as are suited to the declining stage of the disease, when there

Alhalis have been recommended, have the strike in a confirmation of the form the strike the said samulated to trade the first intelligence to the first Some and the de in some motion that the the the desire at the an purious personal and endones to the liver to heders on a let the walker to lamit. It has the shower however do not a select the hill The Le Some would be wines, I to it a mild start inter Americal or tradegille they presented there live which I have divine in less assess to constant & wite be closed adamate to that a pers. Six I have to delate the regreder history he the Red strait of histories . The the the things of bushes I wished the major will be the then present of the degree things been a will die it minutes of the discount of the properties for the who have not consistent in will be and the extended the bolom star is a mark a copy in some the statement stay as the decare when is wason to believe that the fabrile action has been umoved. +

Most of the markoticks & antispasmodicks have been liberally employed at different times, & among the rest opium has not been neglected. By all practitioners, whatever may be their theoreticalities views, this article is used as a palliative of the moun whement symtoms. The practice was introduced by Dr. Withering, who believed the medicine to be possessed of great powers in the cure of pertussis. My own experience, however, leads me to a different conclusion. Opium will calm the irritation of the lungs, & thus suspend the paroxysm; but this is all that can be expected from it in the complaint under consideration.

brought into publich notice, as an infallible cure for hooping cough. Coming from such authority as Dr. Butter, who had previously written a work on the unittent fever of children, it soon obtained great popularity. Consulting the works of the time you will find them replete with attestations of its great vivitues. After awhile, however, a more extensive experience with the medicine, led practitioners to place little confidence in it. Like opium, it sometimes

which to which that the place make his which the with the Yantiphend differ lange distributed the withless of the wind townson and the state of t when he had the thirty was reformed the character which me the has like hand the last free free free from the state of the first free from descriptions bearing the second of the secon

polliates the cough , but it makes no beneficial or permanent impression on the disease. I would place it on the same footing with the hinbane, nightshade, digitalis, & all the other narcolichs. Considering, however, its utility in ashma, an exexplion, perhaps, may be made in favour of Stramoneum. That it is beneficial in asthma, there is no longer any doubt, & from the analogy, Which exists between certain cases of this disease & of pertussis, it is not at all unlikely that it may also be bineficial in the latter. But I shook altogether from conjecture, as I have not had the slightest experience with the remedy . - It is genwally used in adult cases by smoking it like tobaces.

Entertaining the impression that hooking cough was hurely sharmodick in its nature, peaclitioners were at one period much in the habit of confiding altogether in antispasmodick remedies. The whole of this class of medicines was tried in necession, & more especially castor & mush. Of the former article I know nothing from my own experience, though it has been stremously recommended by a variety of authors. Gullen, however, tills us that it is wholly distitute of efficacy; & though I do not go so far as

Marine and the first of the william about same bully in a state of ray of the state of State hardisment to fine to the will had to the the State and also be hardened in the little of that I have Story live from war all is he I have not the Hill made the way to have a south father the the the state of the s

he, get I do believe that it has no valuable powers in this case. The same author makes a similar umark as regards mush, in which I do not at all coincide with him. Determining, on the contrary, from my own personal experience with the article, I should say that mush, in the advanced stage of hooping cough, is one of the most efficacious remedies I have ever tried. The mode of administering it is commonly in a julap. For this you will find a formula in the Dispensatories, & one that will answer very well. But the medicine is so exceedingly nauseous & offension, on account of its odows, that it is difficult to administer it to children, & hence it is not much employed. To obviate this objection, it may be given by injection; though in this way it is not so efficacious as when given by the mouth. But whatever may be the properties of the natural musk, they are equalled, if not surpassed by the artificial. This you know is formed by uniting nitrick and with oil of ambev. Ever since the age of VanSweiten & Brerhaave, the powers of this preparation have been well known. But it is only a few years that the artificial mush has been employed in the treatment of hooping cough. To Coopland a Professor at Gottenger, we

the with higher White the inter on hid de where Somether that author with observer to theyer The holder of burget he also at the secret office, and a row Little Holmaning to Mintel the winds of religions Esperante spolar de la Ser Mark John Similand He It have hard house he ste ministered by the contidence of high who have the

owe the application of this remedy in the disease. As soon as the intelligence became known to the medical world, the article was generally employed. But it would appear that the subsequent & more enlarged experience, has detracted, considerably, from its reputation. It is right, however to state, that the celebrated Dr. Bailie, one of the most candid & experienced practitioners in London, after a full trial of the article, declares that the artificial mush, if properly timed, in hooping cough, is a remedy deserving of the largest share of confidence. As get I have not employed it to a great extent, & the few trials I have made, have not answered my expectations. That it is powerfully antispasmodick, there can be no doubt. I have employed it in a great variety of nervous affections, I, except in partussis, have had every reason to be satisfied with its effects. It should be given in an emulsion, made by subbing it with almonds, and water. The dose is the same as the natural mush, viz. from 10 to 12 grains for adults, & to be graduated for children according to their age. Artificial mush is also used in tincture.

> R. Artificial mush 3 ij -Alcohol 3 viij

But it would about this the williamond to miss have it reported in a the or of it for ever to the first that the alcharted the Books seem soll in white and List & si firmania matchet more who Similes hafter a last hard of the will be declared that the grather to be securedly the receiving right the lessy of which at aprilies defree is all not I have not inablemed it to a good mound super hote liver Mark it is himself wite premated, him can be so doubt. I have and though it in a speak warety of an energic a freshing I must be a hasteldon , have how now much to the well it mille it effected the should be along the Sandrier no the his molling it with aladuster will with it. The dist is the same not his williams much allowing to the warm

The dose for a child is 5 or 6 drops, & for adults

a proportional quantity.

before oil of amber, one of the inquedients of the preparation just mentioned, much has been said as a semedy in pertussis. It is particularly extelled by Underwood, the author of a work on the diseases of children. But its efficacy, determining from my own experience, is not very quat, It has been tried by me again & again, & never with any signal advantage. But I ought to mention that many practitioners of this city, entitled to our full confidence, whost differently of the oil of amber. The dose for a child of one year old, is 4 or 5 drops, taken on a lump of sugar, dissolute in water, & repeated several times a day.

The most effectual in hooping cough is assafacteda. To this point we have the testimony of almost every practitioner, & so much confidence has it gained in this city, that it has almost supersided other remedies. The physicians of Philadelphia, after having evaluated the alimentary canal by purges & emetichs, & abated the violence of the symtoms by V.S., for the umaining treatment resort to assafaction.

Make a saturated solution of the gum, & to a child

. 4 : Level of number wine of for when we will be the wind of the bear him time bullion it that I supplied witness that many for water souther to be the first fitte was to to win In he should all on some while it has to trade to proper forters guln steen " Later tooloother draw and make the the Million while a short of the long or the first he first he

between 2 & 3 years old, give a dissert spoonful every 2 or 3 hours. The remedy is, however, objectionable from its nauseous nature, & is often very difficult of administration.

As you may readily suppose tonichs have also been employed in this disease, in the advanced stages. By many writers, The Peruvian bark has been very favourably noticed. But no one has gone so far in commendation of the article, as bullen, who, in deed, places it above all others in the advanced stages of this complaint. It is reasonable to presume, from the known properties of back, that it might be production of advantage in a disease characterized by the paroxysonal type. But notwithstanding the plausibility of this reasoning, & also the testimony which might be address of its having done good, I am not prepared to say much in its favour. I do not know that in any case where it has been used by me, I have derived from it any advantage. In substance it is exceedingly disagreable to children, difficult of exhibition, It if taken into the stomach is almost always rejected. The watery preparations are all too weak, to make any valutary impression.

Exactly on the same principles arrenich has

11 treatment my trade and a string . But the mention at there in the over the other it it shows all allows in before how the good this weather it this was As to prouve from the Enough perfect wife book discrete wheed the the place of mad lighes I look is also the believery interest and the his address of the bodiers, down timed the world their and the her will in it bertelies I the gold hid on their line was never made in it a fine orders where the for it has been able to a secure to a secure to while the father with the states of a almost always as point. The waters perpendicularly and all lances to

lately been introduced into the management of hooping cough, & is particularly recommended by Dr. Simons & Dr. Ferriar of Manchester in England, by whom it was brought into notice. They gave it in such doses as we might Duspect from the article. To a child 18 months or 2 years old, they gave from 1 to 1's or 2 drops of Fowler's solution in sweetened water, & gradually increased the quantity. Gould we place implicit confidence in the whorts of these writers, we should be satisfied with arrenich alone, & ween to no other medicine in this disease. But it is my duty to tell you, that an author so respectable as that above mentioned, I have repeatedby employed the article, & without any sinsible ad-

In the rage for new remedies in pertussis, the saccharum saturni has not been overlooked. The credit of first applying it in this disease, is claimed by Dr. Rees, & his claim is generally conceded. But in turning over the pages of Sauvages, I find that he advised its employment. After detailing all the other remedies, he adds,

. . an Franklidge Whishall But the fall of the set to the four this to which the fee in Me ou the is the subspect of sileling the his later The allies windlich dela thelle our Also give saccharum saturni to addata, in doses of 2 or 3 grains, & graduate to children. After Dr. Rees' publication, the medicine was tried in Europe, but little is said of its success. It was much used by the late Dr. Rush, who reported favourably of it. It was not a little commended by the late Dr. Barton in his between on moteria medica. It is not pleasant to dissent from such authority, but truth compels me to state, that whenever I have tried it myself, or sun it employed in the practice of others, not the slightest advantage has been experienced.

The last of this class of remedies, employed in hooping cough, is the nitrate of silver. It has lateby been particularly accommended by Mr. Somes, a surgeon of some eminence in London. But the remedy seems to want confidence, & is too violent to be employed in eases of children, especially before its efficacy is fully established by more ample experience.

I am next to bring before you, a different discription of medicines. It is, perhaps, known to you, that the alkalies have been employed in this disease. The praise of having originally prescribed them is commonly accorded to Dr. R. Purison of London. Being well pleased with the effects which

71 We are the farmer to trade to a delicate and in the witester of select of the entablished the state of the Bell to Whatester on

I saw result from a prescription of his, I copied it when I was abroad, & brought it over with me to Philadelphia. It is as follows.

Pr. Garb. Soda grij Vin. Spicae. gut. V Tinet. Opii . gut. j Agua

The whole to be given at a dose, to a child and year old, & repeated every 3 hours.

It the moment that this preparation was generally employed in regular practice, a combination of the vegetable alkali & cochineal was put forth, I do not know by whom, I has now acquired such confidence, that it has superceded almost every other unedy. It is prepared in the following manner. R. Garb. Potass 3;

Cochineal . ge X Agua . . 3 iv

The dose is a tea spoonful every 2 or 3 hours.

My experience with the alkalis in hooping cough is sufficiently great to enable me to pronounce with some degree of confidence on their merits. My conviction is, that they are entitled to credit, as remedial calculated to make a strong impression on the dis-

2 the second that are a superior to a standing the time it is a file of the most of the most of the second of the the the trade to the over the will see I made the same to with there there is the retain morne to a the solden or experience with a property the in my sound The the named that this hast distinctive was groundly limited to a sold the persolation as some his bear the first het have to thepe I has mine alwand the first trees district, that it has a fainted about chair when server to the particular to the following shi bearing Dr. Beck. Poplar To form Catherent not were to a wine to Agril Town They so state is the first with with love of hargards a they explained with the policies in horhold manifold respeciably good to mater on to himming in the

ease, & that they are, apparently not without benefit as palliations of the more distressing affections. To this point we have not only the coneurrent lestimony of the physicians of England & of this country, but also the popular voice, to a considerable degree . But to obtain the full effect of the alkalies, we must administer them in much larger doses than those I have mentioned . byhibited in the very small portions contained in the formula above detailed, they will prove of letthe advantage. It was owing to my employment of These prescriptions, that, for a time, I lost all confidence in the remedy. But since I have doubled the quantity, I have reason to be satisfied with its efficacy. Of the comparative powers of the alkalies in pertussis, I do not know that I am prepared to decide. I have lately been in the habit of using potass, I have derived great utility from it. The practitioners of this city prefer the same article. But I have no good reason for believing, that it is in any way preferable to the carbonate of soda. In what way there articles operate is not very intelligible to us. By some European writers, it is contended, that they do good by correcting the acid sorder of the alimentary canal. That such accumulations do exist, & by

* In my lectures of last year, I said, that the praise of having introduced this remedy is given to Puison, but I find, by looking over a periodical work of Germany, that the alkalies have been used from time immemorial, in that country.

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irritating the stomach induce irritation of the lungs in pertussis, is a fact as well attested as any in the whole compass of pathology. It is not, Therefore, altogether improbable, that such is the modes operandi of the alkalies. Nevertheless, there is no absolute necessity for resorting to this chemical solution of the problem. The alkalies, contrary to the common opinion, do really exert a powerful agency on the system. We see this fact exemplified in a number of diseases, & particularly those of a periodical nature. On a former oceasion I mentioned to you, how exceedingly efficacious are a few grains of carbonate of soda in intermittent fever, combined with Serpentaria & Servician back. As the alkalus act in intermittents, so do they act in hertussis. In both cases they operate by making a strong & peuliar impression on the stomach, interrupting & terminating those morbid associations which constitute the foundation of all periodical diseases.

Leaving the consideration of the alkalies, I am now to make a few remarks on a medicine which had, & still continues to have, not a little reputation. My allusion is to the tineture of cantharides. This has been long known in different parts of England as a popular remedy in hooping cough.

* Garlich in Opts. of turpentine, tinct. of eartharides, volutile alkali; Tartar emetick dissolved, Ve. if aubbid along the spine; sometimes answer a good himposo.

But I betieve that its uputation was established by the late Dr. Lettsom of London, who, 25 or 30 years ago, first called the attention of physicians to it. He gave it in minute doses, 4 or 5 drops at a time, mixed with a little sugar & water. Its soon as strangerey, however slight, is indued, we shall generally find The cough & other symtoms to be suspended, & if the medicine be persisted in for 4 or 5 days we shall commonly succeed in removing the disease. But it is by no means a pleasant mode of relief. It is extremeby disagreeable to the child, & in employing it you will have to contend against all the prejudies of the family. But when the disease is obstinate, you will be justified in resorting to a remedy so howuful wen as cantharides. It is a favourite with Dr. Physich, who has again & again used it with advantage in purtussis, conjoined with laudanum.

Thave now given you the catalogue of remedies which have been, & ofth continue to be considered as most applicable to pertussis. Many of them are deserving of little praise. But in morals it is often as important to point out the evil as to indicate the good. The same holds good in the practice of medicine.

By attentively considering what I have said

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you may, perhaps, collect my own practice. But list you should not, I will recapitulate it

in a few words. Believing the complaint in the first stage to be inflammatory, I resort to the remedies best eatculated to meet this indication. These are V.S., purging, with mercurial cathartichs; & when there are large accumulations of mucus in the bronchia, emetichs often repeated, & in the interval, nauseating doses of the same remedies. When the child is exceedingly oppressed, & there is reason to suspect congestion, or inflammation of the lungs, then I resoit to topical depletion by leeches or cups & to the application of a blister own the chest. As a more fal liative of the more distussing symtoms, I occasionalby use opium. After the crisis of the disorder, or, in other words, after the inflammatory stage is passed, I have found no article so efficacious as the alkalies & the watery solution of assafatida. Both are eminently beneficial in this condition of the disease, I one or the other may be selected, as the circumstaners of the disease demands. In many cases it may be serviceable to alternate them. At first employ the assafatida till the hateent becomes disgusted with it, or till it looses its effect on the system, & then resort

è. . File of Many Dear of the Following with the inflorment of the winder hill out aing in the mariand abtentiable & about the aid who be be a control of a control of the bounder enediche of in finite him the witing news short dores of the some sundie. Allow the while ainsteaming of firm of the in security buffer any willy be with he wife in all the land there it was not be to the telepion to rector or carlos to the as the all and a little so the last of the state of the How I the other was a selected in the region of the in more said of the first that the said of the said for the said of the said o

to the alkalies. With this we conclude what may be called the medical treatment of hooping cough; but, before dismissing the rebyect, I must call your attention to the necessity of a proper regulation of diet.

As the disease is inflammatory in the commencement, it is of the utmost importance that the antiphtogistick plan should be observed in all its details.

As a part of this plan, the entire exclusion of animal food, should be insisted on. It will be impossible to make a favourable impression on the disease,
unless the patient be confined to vegetable diet, & the
autiphlogistick course rigidly adhered to. Not less
important is a shirt attention to clothing. This
should be warmer than is generally worn in
health.

It is a very popular opinion, that the halient derives great advantage from exposure to fresh air.

There is not the slightest doubt, that if the weather is warm & mild, this method is of great service.

But if the disease occur in cold weather, you should keep the child as much as possible within doors, & in an apartment, the temperature of which is reqular & equal. By exposure to cold, especially in the first stage, you will never fail to aggravate the

* The employment of vaccination has of late years been proposed to distroy the progress of this disease; but experiments in England about 20 years completely disproved it. Dr. Watt of Dublin has made experiments which go to oracintain that vaccination awakens a susciplibility to scarlatina & pertussis; but all this regions confirmation.

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symtoms, & sometimes induce catarrh, & in other cases, preumonich inflammation. When this superwenes hooping cough; the case is generally fatal. I wish to puss your attention more particularly to this fact, as the practice is almost universal, to take the child out of doors, with the wiew of exposing it to the fresh air. But there is no point on which judicious physicians are more agreed, than as regards the preservation of the child in an equable temperature. Let me repeat, however, that if the weather is warm, great advantage will be derived by removing the child into the country. When from poverty, or any other cause, a residence in the country cannot be commanded, you should substitute occasional riding. By this simple process, you will sometimes do mon good, Than by all The ar ticles in the materia medica. Even a change of usidence from the country to the city will often be

Shave dwelt thus minutely on this disease, as none is more herplexing to the practitioner, nor attended with quater fatality. Pholera infantum and pertursis are more distructive of life, & make wider inroads in domestick happiness, than all the other infantile diseases put together.

Dr C. lectured on Angine Dector's, This year (1825) before he betiened on edolhnow.

Asthma.

I proceed next to deliver an account of asthma. This disease has most commonly considered as a shormodich affection of the lungs, which comes on by paroxysms, sometimes very regularly at stated intervals; though he haps more generally it does not observe very strictly, he law of periodical occurrence. There are induced, wide deviations as regards the return of the paroxysm. Cases are recorded in which the attack came on daily, weekly, monthly, yearly, or even at more distant periods, as, for example, twice in a long life.

The causes are such as act directly on the lungs, on such as act indirectly through the medium of the general optim. If the first of these causes are certain acrid matters inhaled, as the vapours from lead, arsenick, mercury, or other metals; also, hungent odours, as strong, perfumes, or pungent smells, produced by a quest number of substances. It is a curious fact, that the odour arising, from incocuanta, which, as I shall hereafter tell you particularly, is highly beneficial as a remedy in this complaint, sometimes brings on a paroxypm of asthma. I know a

Millina

Student of the late Dr. Bartons, who could not weigh out the article, without inducing an attach. In looking an early volume of the transactions of the Royal Society of London, I met with a case puciseby similar. To these causes we may add the irresperable gases, as carbonick acid gas more partieularly, & different states of the atmosphere, as regards its sensible or insensible qualities, as excess of heat or cold, moisture or aridity, with some occult premiarities with which we are not acquainted. Thus the air of the country & suburbs, is much more pernicious than that of the city; & cities, apparently under similar circumstances, differ materially in this respect, as is illustrated strikingly by Baltimore & Philadelphia. It is said that the air of Baltimore peculiarly predisposes to asthmatick affections: and I have known ownal individuals come from that city to Philadelphia, to be considerably benefitted by the change of air. The air of a high station situation will sometimes induce, while that of a low one will not. These causes art primarily on the lungs; but, as I before stated, There are some which secondariby affect this organ. Most of these may be traced to wrong impressions on the alimentary canal, made by worms, indigestible food, inacrition from long

there has been the the second of the sitting

fasting, or repletion from excessive eating or drinking, & constitution of the bowels. Among these causes may also be stated, a suppression of any naturial discharge, retrocession of eruptions, metastasis of
disease, & the indulgence of violent passions. Most
generally, however, the circumstances enumerated,
are merely exciting causes, acting on a disposition
derived by inheritance, or arising from a preculiar
conformation of the chest, & thus awakening the
disease into existence.

But whatever induces a paroxysm of ashma, it very commonly commences in the evening, a after the first nah, with a sense of tightness or stricture across the chest, & with impeded respiration. There is wither no cough at all, or if this own, it is unattended with expectoration. The patient, if in a howsoutal posture, is under the meissity of using into an exect one, & approaches, for relief, to the open window. The difficulty of breathing is found to increase, & inspiration & expiration are performed with a wheering noise. The voice is weak; the exention of talking, more or less painful. After these symtoms have continued for a few hours, a profuse purpiration breaks out, respiration becomes less laborious, the cough, which in the commencement + Prognosis is rather difficult, but we may generally calculate on curing it, when it occurs in young persons of sound constitutions, it is brough on by accidental causes. On the contrary when it occurs in advanced age, Twhen it is hereditary, we shall seldom succeed in effecting acure. Triagnosis asthma can scarcely be confounded with any other disease; the suddenness of its attach-coming on during the night while the patient is in the recumbent posture; the periodical nature of its attachs, the peculiarity of its cough, all combine to distinguish for Angina Actoris & Pertupis with which it is most likely to be confounded. Trinally it may be distinguished from dyspinaia, by the latters being permanent & not periodical.

was without expectocation, becomes more fue, a discharge of mucus takes place, & all the other unpleasant offictions are alleviated. There is has tension across the breast, & has difficulty of respiration.

Every night, towards midnight, the same hymtoms recur, & are removed again towards morning. After the disease has thus continued for several days, the expectoration becomes more copious, and the paraxysms case altogether. The pulse, for the most part, throughout the case, is quick & small, though it is sometimes not at all affected. The wine at the commencement of the paraxysm is pelluced, & in the remission is high coloured, & after deposits a laterations sediment. The face, during the paraxysm, is often flushed & turged, but is as offen pale & shrunk.

Ashma is a periodical disease, & does not often occur before the age of puberty. It attacks the male, more frequently than the female. Sex, & is more liable to occur in hot weather, but this is not uniformly the case. The paroxysm is after succeeded by lassitude, torpor, drowsiness, lightness & pain in the head, & many symtoms of dyspepsiat. As regards the pathology of this disease, very

3 , 1

little, I apprehend, is clearly understood. By Cullen & most of the modern writers, it is supposed, it is supposed to consist in a spasmodick construction of the muscular fibres of the bronchia, which interrupts respiration, & gives rise to the other distressing symtoms incident to the case. But a very late writer, who has treated of this subject, not without ability, has attempted to overthrow this doctrine, Shough I think unsuccessfully. It is contended by him, that the leading & most common form of the complaint, is caused by irritation applied to the air cells, either by serial acrimony, or by serum. As yet disactions have not thrown much light on the disease. In cases of Judden death, or when the complaint has not long existed, the lungs on examination, appear in a perfectly healthy condition, But in very old & prostrate cases, we are told by Morgagni, that the parts show evident marks of morbid action, & this circumstance is cordorated by the well known fact, that asthma sometimes induces preumonick inflammation, or runs into hydrothorax, or consumption.

On the whole it appears highly probable to me, that asthma is really a disease of the lungs, attacking in the shape of spasm, & that the inflamma-

solution ordention his star of asterna is the and is his fewering the received of the president in There is no show at finding about the second to the first the second to the second in the land of the specific his properties

tion & effusion, & other morbid phenomena, occur only as consequences, or more effects of the preending dinase. But at the same time it must be admitted, that the spasm to which I allude is often only secondary in its nature, arises from various causes of irritation, but most generally originating from the stomach & bowels.

The ordinary division of asthma is into spasmodick & humowral, he one dry & the other attended with petuatory expectoration. The first is the most common form of the disease in the early, & the second in the advanced periods of life. Whether the peculiarity is sufficiently uniform to warrant the division into two cases, I am not prepared to say. But in practice this point need not be regarded. Each form has repeatedly come under my notice, & I have found that they are both to be managed on the same general principles, only adapting the remedies to the circumstances of the system connected with the disease. It appears to me that a much more correct division would be into ideopathie & symtomatich; because, most unquestionably, the disease does exist in both these shapes. But whatever may be the pathological view, entertained with regard to the

diverse the love to be supplied the And which who where the party of the party and the sales a during externo or ordered out the desire to recent opened he will in the the species to short to the start of all allands destroying to peticify as me from Executive sindle flower from from will sain and many from the Mangarage of they are . The wide about the most of afficers is into eller Alder Alet will be before experienced in The good in the sand book winter for former of the shower les the beated to the superior for the exponential present the little of the formation is the second of the assembly the it successified the contracted the fitting the second of the second second second The application converted to a sold the discussion . They have product on the first family made course being our wanted the wife of the first of comments of the the sound of the said will be the said Me hadron har many in

which is proper during the paroxysm, & that which is suited to eradicate the disease, & to prevent its occurrence.

No practitioner, merely looking at the prominent symtoms of this disease, would hesitate for a moment as to the propriety of V.S. It seems to be called for by the interrupted circulation through the lungs, indicated by the difficulty of respiration, the suffered & turged countenance, & a variety of other circumstances. But still it is universally confissed that the remedy is exceedingly ambiguous, I by many it is altogether condemned. Even Those who are in the habit of newering to it, allow that the advantages derived are not at all comminsurate with what might be expected from the syntoms. It is, however my settled conviction, that though the lancet is not in general required to a quat extent; yet, in the more violent fits of the disease, it is useful & sometimes indispensable. Nevertheless, I wish you to recollect, that I recommend the remedy only in plethorick cases of the disease, & when the attack is vehement, & of short duration. Under such circumstances, V.S., undoubtedly prevents that organich injury

Adorso from the survivate front the following of the which is the his selection of the contract of the selection is with a resident of the first the state in Who had the see you will shall to the free a commenced with the first of the after the first of the second he and at his his the subsect the continued the the the history of the day of the state of the s the after the house on the sing & a mile of a the circumsteres which the it of injuried with have better the money to a comment of a collection of the many it is all of the the water will the though they are in the mother of recovering to it alone that he advantaged divined all get it is all as made in the said of the said o the separation on their free to may a think at the tion i that there the to with the wife in the to the the the the to the the to the the the the tender to the tende animal he a grant and all said his the real within hits of disdocated it it weeked it constituted in the provided News Mites Ferile you to near their had I amount in the amount of the liberie to dian of the director, to while the collect it as facilities dispersion bedieved in the second of the second of the second the ander bled forgand that ordered in

of the lungs which lays the foundation for hydrothorax & pulmonary consumption. In determining on the propriety of the practice in this case, we are not to confide in the in the indications of the pulse, as this in many cases, is very stightly affected. But we must take into view all the eincumstances of the ease, particularly those already mentioned, as apparently calling for the ment ocomo remedy. Cases do, however, often ouno, where V.S. is entucy inadmissible, It would not prove of any utility, though there may be present no inconsiderable degree of congestion of the lungs. It is exactly in this state of the case, that topical depletion by cups to the back is indicated, & may be most beneficially employed.

Of the efficacy of emelicks in a paroxysm of asthma, infinitely less difference provides of opinion privals, than as relates to the two former modes of evacuation. But these are objected to by some as hazardous & altogether useless. This objection has always sumed to me as altogether fivolous; & so far has it been from influencing me, that I almost always prescribe emetichs, & have frequently met with success. As respects the nature of the ease, whether it is sparmodich or humowral,

the heart it for lowery was a soft most first a willy Surgery the the bearing in the place of its desirant de Ant Sund March Mar Ser the mort Sund whether duth she could be to be her he still the when the try water a statementally thereof is the former from the first the state of the state Consideration of make I appropriate file of the present desplace to the tested down to think in internally to he much be their the strate The distance constitution of the same is allocated in the time has dieferent producted of their and the third are about the to be desired The state of the state of the second for which the state that Continued interingly provided investigate in high free tradete and a secretary to the southful the second of the supporter character in specimentes to be minimised

there is no difference in the administration of the remedy. Most generally under every eincumstance of the disease, vomiting causes a relief of the paroxysm, & if timely resorted to, sometimes prevents a return. Specacuanha is commonly prefered over all other articles. As far as I know, he practice of using it, originated with Ahenside. At least an excellent paper was written by him on the subject, & may be found in the transactions of the London College of Physicians. During the paroxysm of the disease, he administered go XX of ipuear in order to afford immediate relief; & in the intermission, from of 11 to V every morning, to exect nausea & effectually remove the complaint. When ipical is given in these small doses, whether it produes vomiting or not it is equally beneficial. It is right, perhaps, for me to mention, that Gullen and most other authors who have followed him, differ with me as to the equal propriety of emetiches in the two species of ashma. It is said by Cullen, that though vomiting is very beneficial in the pitulary or humound, it is of no avail in the spasmodich, & is sometimes evidently mischievous. To this I will only answer, that from my own experience I have been led to an opposite conclusion, & have found vomiting

how in an established now in this is low him what for any the mount is at the thousand in and i and the section to the same himself the Linear Weiger listen was the was a still for without ister the Sugaritha What he millioned. the factor some all the bright his whole the week for many houseful to Kertler Widnesdat may refer our harbylands distribution of the first sung for the they be the at the converse the first of the painting of the same at Land Berlin of the delicion to delical particles of the second There we had a so to the the the second of the second interest of all the state of th Water to which in the best will be from the drawn I have descent of the second second of the second was alle we those with him fallowed it was the first Some the state of the second the will be the state of the a getterlig and he the ship division of "Hilled of an House." Extended have and their welcologie

just as serviceable in one, as in the other form of the complaint. Do we not give emeticks to relieve shasm in eynanche trachealis, It is not the effect of the unedy most beneficial? Why should we not in asthma arising from shasm, recent to the same remedy? But on this you may implicitly uly, that as far as my experience has extended, emetichs may be not only safely, but usefully employed in the shasmodick as well the humaal species.

By some practitioners the squill is greatly prefered in this case. It is not at all unlikely, that This article is well suited to the disease, & especially when it occurs in old people whose lungs are toupid & loaded with phlegm, & that they may be relieved, require an emetick action & stimulating. Much also has been said of a combination of spicac & squill, which has been reported to be vastly superior to wher of these medicines alone. But of this I cannot speak from any experience of my own. Cometichs in nauseating doses are by some prefined to active vomiting, while others, on the contrary adopt the latter mode, & which of the two is the butter practice has not been accurately determined. On This point I have long made up my mind. To me

or the weelfeld in your and my the other lovels of the conflict. The sa williams boundedles to I in regionale landership the industrial expected the country west beneficial? Why standed champ of gardie

it is manifest that, as in all other cases, one or the other should be adopted according to the circum-Stances of the disease. To buch down an attack, vomiting is infinitely more powerful, & should never be neglected. But with a view to the promotion of expectoration, nauseating doses are among the best means in the management of ashma. Commonly ipicacuanha is admitted for this purpose, & is exceedingly efficucious. But in cases of all people, in whom there is much atomy of the lungs, the more stimulating expectorants an demanded, as squill, gum ammoniaco, Sencha snake root, & volatile alhali. Not the least efficacions of the stimulating expectorants is a combination of lac ammoniacum with nitrick acid. Inpace of the milk of ammoniaca 3 VIII according to the formula given in the Dispensatory, & how this gradually on 3ij of nitrick acid, stirring the mixture in a glass mortar at the same time. It is also beneficial in some eases to add from 388 to 3) of paregouch. The dose is a table spoon ful every how, or two, according to circumstances. From this preparation great utility has been deword.

As might be expected from the known effect

the surveyed that as in all the getter was to the allow absold be adopted according to the Election under the extended him he was selected a state of the selected religious at mis in an in the disorder of which it is in humander, as saidle, given amorrance of 300 officialists of the distribution experience to the combination of the appropriation and with the doid a Well see of the good he of about core also to VIII Those his gradually on In at within a will offered describer have the and was shown our wife at the the the close this perfect and my your of will to the their thought the and comment his continue, it is the other land

of purges in the pulmonary complaints, they are entitled to little confidence in asthma, and are even, sometimes, productive of injury, if unged to any extent. It is, however, important that the bowels in the commencement, should be feely evacuated, & afterward hept in a soluble condition, as the disease is, in some cases, considerably aggravated, & is even produced, by constitutions. For this purpose calomel is preuliarly adapted. Nothing would appear more reasonable to a person considering the symtoms of asthma, then that Opium would be serviceable in that complaint. Accordingly it has been liberally emplayed, & with very opposite results. It has lately, been said by Dr. Bree, that Opium is uniformly hurtful, I such is by no means a rare opinion, though it is not universally entertained by practitioners. The truth is that the effects of the remedy, are not the same in the different stages; being always mischievous in the beginning of the discomplaint has been reduced by the active means already detacled, opium is productive of very quest advantage, as I am pureaded from my own observation. Never, however, should we confine the

+ Ether is very good, & may be combined as follows: 6 ther . . . 355 Loaf ongar 3; Water 3ij

treatment of asthma to opium alone. Every artitle belonging to this class of remedies, The narcotich or antispasmodich, has been successively emplayed, simple, & variously combined. What was said on the effect of opium is equally applicable to the whole of these medicines, with this diffuner, that they are all inferior to that article in efficacy. It is right, however, that I should make an exception in favour of one of them. My allusion is to the Stramonium, which of late years has gained great reputation as a palliatwo of the asthma. The root of the plant is the part employed. Having been previously washed, dried & bruised, it is to be smoked in a pipe, exactly like common tobacco. That the stramonium thus employed, occasionally affords relief, cannot be doubted. I have myself witnessed mamy cases in my own practice, & its efficacy is abundantly attested by practitioners both in Europe & in This country. But, like other remedies, it often fails; &, perhaps, we shall never be able exactly to ascertain under what circumstances it may be given with any certainty of success. It would seem, however, determining from my own experience, to be best outed to dry or spasmodick ashma. But after all,

+ This degan & Stramonian and on & den tim blothe straing with the first of the whether Stramonium is superior to tobacco used in the same way is very questionable. More Shan once I have known whief afforded by a segar, though at other times it has aggravated the disease. But I have never seen any of the violent effects of stramonium, which are alleged by some European writers who depricate the article.

In the management of the disease under consideration, no remedy would appear to promise more than blisters to the chest. But actual experience does not realize this anticipation in any great degree, & there are not wanting some who disordit entirely the utility of this application. My own observations of the effects of the remedy do not allow me to concur in such unqualified censur. Though they have so after disappointed me, that I am not inclined to repose in them any quat share of my confidence. It is asserted that incomparably more benefit is derived from blisters to the extremeter; &, in some cases, when thus applied, to use the language of Dr. Rush, they operate

As blisters to the seat of the complaint are at least allowed to be of such doubtful utility, it will be right to substitute some other vericating,

+ without ereum x in which remedis diametrically &c.

application, & particularly the plaster now prepared of tartar emetick. To the employment of this remedy, we are encouraged by its astonishing effects in some of the pulmonary affections, particularly angina putous, a complaint so analagous to some forms of asthma. During the paroxyour relief is sometimes procured by draughts of intensely cold water; in other cases by hot water, & in others by beer, or very strong coffee. Exposure to air is also beneficial, & sitting near a fire, with the feet exposed to it, is still more so. Do not be surprised at my mentioning such opposite remedies. This is not the only disease, diametrically opposite are found beneficial, & in which we must entirely subscrit to experience as our guide. It may be hurtful to the pride of our sience, though it is indisputably true, that we are aften, in the treatment of diseases, compelled to throw all our principles behind our backs, & to submit the dictates of experience, in the true spirit of genuine empericism.

The inhalation of vapour is well calculated to relieve the lungs, & sometimes may be resorted to with obvious advantage. Even the steam of water is not without utility, though it is rendered

George of Vantain with little house house have her all her himsedy, were now see ourse of the a the do it wise it the opinion before affection or land to so in the fall of all was at the interthing hands Dear Good of the war making a mount of weed lateral age to oftentration rolly wester in broken with a blishall hilising with the hill his word the it is the proper at an Superior windling the Main war who he not quitied the hiller of the service and hole the less in his telester concert double it is diddle to the the thing of the gain was not destire the head wanter and a labeline and come definite to the in thought muster when how in die the horseling of low the charter spreading land was the fear adjudit out the tenting to letter of with all in success the linds to tack the in the law eyes, I have be end from he wish water is who continued of the fire that the It is hundred

some of those articles mentioned under the head

of peripneumonia.

At one period of the reign of pneumatick midicino, it was fashionable to use gases or factitrous airs in the parayyoms of this disease. By Dr. Beddows, harmson from Dr. Thouston, & other authors, they were extravagantly extoled. By Dr. Beddows we are told, that the effect of oxygen is altogether miraculous. The moment it is inspired, the lived colour of the countenance disappears, the laborious respiration crases, & The functions of all the thoracic organs go on easiby & pleasantly again". But subsequent & more enlarged experience, has shown that no benefit is derived from oxygen or any of the respirable gasses, alone, or diluted with atmospheric air. & That Introcommissionian hourage between moment practice, like many other fooleries, after having enjoyed an ephemeral existence, is dead & gone to The tomb of all the capulets.

Thave now brought to a conclusion the history of the remedies proper to be employed in a paroxysm of asthma. But to eradicate this disease, another course of treatment should be pursued.

* The chalybeate preparations best. peace of the norm of porturor blish while Deed without with about you a dilly the tillar ordine of &

As it commonly appears, the most effectual remedies in the case are the various tonichs. It was formerly remarked by me, that the alimentary canal is generally disordered: when this hoppens, the management, in every respect, is precisely the same as in dyspepsia . Most of the remedies used in the last case, will be found equally effectual in asthma, & particularly when employed at an early period. " But this is the least difficult form of the disease, & the one requiring the simplest remedies. It after happens, that long after the paroxym is over, dyspepsia, cough, and other pulmonary symtoms continue, & Threaten serious consequences. These are occasioned for the most part, by effusions of soum, & some organich injury of the lungs. It is under such circumstenus that diwreticks seem ininently serviceable. Of these, the squill, digitalis, & Seneka, alone, or in union with small portions of Calomel, may be employed.

Not a little advantage may also be derived, in this stage from the habitual use of garlick, as it is attested by many physicians. And I am persuaded that one of the very less aemedies, is common tar, exhibited freely in the form of a fill.

Cold bath an equivocal seemedy.

These two articles, garlich & tar, in domestick practice, are generally employed together, & have deservedly arguined much publich confidence. To these I shall only add one other medicine, viz. myrrh. This is beneficial by itself, though its powers are enhanced by union with the Peruvian bark, or some other vegetable bitter, or aromatich article.

Ods the stomach in this disease is commonly a good deal affected, it is obviously requisite that the diet should be strictly regulated. Even when there are no gastrick symtoms, exactly the same rule as regards living, should be observed. No trespass in eating or drinking should ever be committed; and amuch care is necessary to quard against the vicissitudes of the weather by warm clothing, & especially by wearing flannel next the shin.

It is invariably admitted that exercise, & over labour, are very beneficial in the eradication of asthma. Long journeys frequently remove it; and, contrary to what might be expected, it is sometimes alleviated by the exhaustion & fatigue of a military life. To this point we have the testimony of almost all the writers on the subject. Driving the late war, when a large proportion of the population of this city

+ A large city is preparable to a village or The country De the on maken elevated situation & when Lamenyons - et regard populing to seal Boad effects very different sometimes very beneficial the special and which the above of manifeld to X Dr. Chapman lectured on angener Putous This year (1825) before he betiend on Athmas. and the of the late life lateral all the lateral herein with the the the substitution of moderally historique of the first the in the second Medical land of State line & follow of a willing

for several months, two or three of my personal friends, who had been victims to asthma for a quat part of their lives, were completely evered by the fatigue & hardships they endured.

All these means, however, failing, you should recommend a change in the place of residence. The exact situation must be determined by the experience of the patient himself. It sometimes happens that a very moist atmosphere is most beneficial to asthmatick people; & sometimes, on the contrary, the dryest situation is best adapted to their health & comfort.

Angina Sectoris.

This is a new disease, having been described for the first time by the celebrated Dr. Heberdon, about half a century ago. It is of rare occurrence, so much so, indeed, that doubts have been entertained by some, whether it really existed.

As described by those who have seen most of it, the disease presents the following symtoms. The person is seized while fatigued with walking or

burged that for it it forther places and it is experiently construct, and languin to them of windowship The exact villation made by detected in the age We for a the policient himself is to remeliered hale plant from a new what it is tender where is a new to be now contary the diget retendent is hed adopted to Ingina Sictorio. the case was delitely his my bush described for The suration at the chest have the dieser which foregood while mather on

some other exercise, with a painful rensation at The sternum, extending into one or both arms, geneally the left at first no farther than the insertion of the deltoid musele, but afterwards to the elbow, the wrist, & even to the ends of the fingers. In soon as he remains still, all the uneasiness vanishes. But when the disease has continued for some time & become confirmed, this does not so completely take place. The pain, under these circumstances, will come on while the patient is in a state of rest in leed; It will be excited by coughing, by speaking loud, by straining at stool, or by any mental exection. But by for the most common exciting cause, is ascending a flight of stairs, or a hill, or any other height, inducing a disturbance in the circulation; & this is most aft to own when the stomach is full. To the uncasiness already mentioned in the sterner & superior extremeters, may be added, in cases of more violence, quat anxiety, palpitations of the heart, laborious respiration, & a sense of sufficiation, with many The distussing affections, which appear to threaten the immediate extinction of life.

for its subjects, the middle aged, & men more generally than women, & pursons robust & corpulent;

The state of the s the terminal with the land from the which were with the state of the countries of the second the second diest in the same manufact to a facility the same THE RESERVE OF THE PARTY OF THE the state of the s

with short necks, & those who are habitually indolent & sedentary, & often the gouty:

In relation to the pathology of this disease we know nothing that is at all satisfactory. It was generally believed by the early writers on the subject, to be spasmodick in its nature; though the part immediately affected was not disignated or understood. This opinion was undered probable by the general complexion, by its causes, symtoms & curd, & by its close analogy to the diseases confessed to be of a sposmodich nature, as the asthma. So close is its resumblance to this complaint, that it was called by Darwin, Asthma Dolorifican But within the last few years, it has been attempted to be shown by Dr. Parry that it is a species of syncope, denominated by him Syncohe Anginosa, arising, as he alleges from ossification of the coronary versels. To this opinion it may be objected, that there is no necessary connection between what he considers the effect & the cause. That orsification of the versels of the heart, must be productive of great distribence to the animal economy, is without doubt. But I shall never be induced to believe that the agony & distress in angina pectous, are consequences of any decangement in these vessels. Completely to refute the hypothesis,

* Dr. Hosach. really and and was to be a first the second of the is previous initation of excitament

all that is necessary is to mention, that several cases of angina pectous have occurred, in which after death, dissections have brought to light no diseased appearances about the heart. And even where ossification has existed, angina putous, in many instances, has been absent. By as writer of our own country it is contended, that the complaint consists in plethora of the blood vessely, particularly in accumulations of blood in the heart & large arteries. It I do not consider this opinion better founded than the preceding, I shall not enter into a detail of the facts address in sufport of his doctrino. It is sufficient for my puscut purpose to observe, that on the fullness & vigour of the circulation, he founds his hypothesis; which I am not disposed to admit, having met with the disease in cases of extreme debility and emaciation. This fullness & increase in the circulation, I take to be the effect, rather than the cause of the complaint. Do we not find that such a state of the heart & large vessels exists, without inducing angina pectoris: If mere fullness of the vessels be the cause the cause of the complaint, as is alleged by the author alleded to, we should find it own as often as this fulness & increase of the circu* dissetions?

lation takes place. Notwithstanding the number of discolations on angina pectoris, not much light has yet been shed on it. This is owing to the great diversity of the phenomena, no two cases being exetly alike. It is said that sometimes no morbid offerances whotever can be traced in any part of the body. Most generally the heart is diseased by ossification, enlargement or dilatation, effusions in the pericardium, or large depositions of adipose matter. But in offer instances morbid phenomena are found in other parts, the heart being perfectly healthy; as water in the abest, membranous adhesions of the lungs, and scirchus & other diseases of the lives & The rest of the chylopoetick viscua. In one case all the phenomena arose from scirrhus of the pylouis. My impression on the whole is, that the primary seat of angina pectoris is the stomach, from which it is extended through the medium of sympathy to the pulmonary organs, & that, in its nature, it is arthritick or youty. To this conclusion I am led by the consideration of the canses & mode of attack, symtoms, cure, & appear ances on dissection; & particularly the first, as all the cases which have come under ony notice

tending to longs on heart. Steer letter follow - Wholeston to his or delativities, affermance in the personal whom land tol of the title in a start fland new than all it was all it a cert firm the of the will like hatings that He we wind the lite to he were in the is situally lighty went from he with it is it the

have ultimately turned out to be the gout, My time will not at present permit me to enter into a more minute defence of my opinion, nor is it required, as no new course of practice is suggested by it. But I will relate to you a few carses which have occurred to me, I have you to draw your own conclusions.

Case 1st. There was a gentleman in this city who, for 20 or 30 years, was supposed by his physicians, to labour under angina pectoris. The symtoms were all strongly marked. After the death of Dr. Rush, I was called in consultation to the gentleman in an attack of what was considered angina putois. Beliving, however, that it was really a case of gout, I recommended the attending physicians to treat it accordingly. Volatile alkali was given internally & sinapisms applied to the extremeties. In the course of 2 or 3 hours a complete attack of podagra came on which, after continuing for 3 or 4 hours, in a single second, receded from the feet to the heart, & terminated the life of the individual. It is proper to remark, however, that he had discontinued the medicine & taken off the sinapisms. This case affords strong testimony in favour of my hypothesis, though it wentualed unhapily.

1 The Ingersale Britter calls the disease Case and. There is now an eminent lawyer in this city who, many years since, was subject to attacks of a disease which, by Dr. Huhn & Dr. Wistan was considered angina pectoris. Two or three months ago I was called in, & found him suffering with owere pain in his sternem, extending along the deltoid muscle, & reaching to the fingers. Believing the complaint to be gout, I treated it accordingly, & the pain soon fastened on his wrists.

Case 3id. There is a lady whom I have a long time attended with what was supposed by Dr. Huhn & Dr. Wistar to be an attach of angina pertonis. For 2 or 3 weeks she has been troubled with a severe pain, extending from the sternum to the wrists. Yesterday she drank water with red pepper infused in it, & 2 or 3 hours afterwards, I was called to see her with a confirmed attack of podaga.

It is perfectly well known that affections of the Stomach & lungs produce a painful sensation about the arm & fingers. In my between on gastritis, I mentioned that this was one of the symtoms of that disease; & I also mentioned, while treating of hydrothorax, that pain in the sternum

There is one thing which distinguishes angua peroxym is brought on by the slightest exection Some attended in the whole was resplanted by the The best to the Warte to Se an attack af anyone to a heary from the way the second of the second of the continued in the first of the second william with all fields affining the water of the wife with the and a aprophery Short the last to the your the way the time on your hille it han find a the of the said the lift the tight. &, on the authority of Dr. Church, constriction & pain at the wrist, were not uncommon occurren-

This complaint is sometimes confounded with asthma. But as thema commences gonnally in the night, continues longer, is attended with more whening, is relieved by exposure to fresh air, and

gradually subsides towards morning.

The treatment of angina pretoris divides itself into that which is proper during the paroxysm, & that which is to be pursued in the interval. As soon as the patient is attached, he should be placed in a state of complete ust & tranquility. Next, when the symtoms are argent & the pulse is tolerably vigorous V.S. should be employed, & that it may prove effectual, the quantity detracted should be large. 20 or 30 ounces must be drawn at once, & in violent cases, it is necessary to repeat the operation to The same extent, in a short time. The fact is, that sometimes he case is of such a nature as to admit of no delay; It if the practice be fueble & irresolute, it will prove inevitably fatal. My rule is to urge the lancet till relief is afforded, or as far as I can, consistently with prudence. But should his general depletion be contraindoRhubard or Harrier's Condial

cated, or insufficient, cups may be applied to the back & blisters to the breast, with great utility. After these, the bowels should be fully opened with some active purge, as calomel & jalap or an infusion of sennas. It will be perceived by you, that the practice I recommend differs materially from that which is laid down by the whole of the European writers. By practitioners abroad, on entirely opposite course has been adopted. Considering the disease as purely spasmodick, they were to a class of remedies which are best calculated, in their estimation at least, to overcome this form of diseased action. On opium, mush, other, cristor, & such articles, they exclusively rely. Undoubtedly, either in the in eitunt stage, or after the more violent symtoms have been subdued by depletion, any of these will answer exceedingly well. This is precisely what I should do, I have often done with great advantage. Called at the very commencement of an attack, you will generally find a dose of laudanum or other to afford great whief; and after copious depletion eithor these may be emplayed, & the musk julap will not be found less effectual. The point for which I contend is, that

+ Sinapisms 46, should be applied to the extramities.

the paroxymm, after it has been completely formed, can only be subduld by V.S. & The auxiliary means, or at least, can be subdued by these unudies, more promptly than by any other.

This brings us to the consideration of remedies proper in the interval, between the paroxygoms, oo those which are given with the view of preventing the return of the disease, & of completely eradicating it from the system. These are either topical or general. Every practitioner seems struck with the importance of establishing some counter irritation or drain in this complaint. Formerly it was the custom to accomplish this by perpetual blisters to the chest. But of late, the puliar irritation of the emetic tartar seems to be prefered, I has been generally substituted. The manner of applying it, is where in the shape of a plaster, or by cloths wring out of a saturated solution of the salt. It induces a very peculiar pustular eruption, of a nature very poisonous & difficult to heal, & very well surted to keep up a constant & permanent irritation. Whether it is productive of much advantage in the ease before us, I do not know from my own experience. Cures, however, accomplished by this remedy alone, are recorded in periodical journals of England. + Mitrate of Silver

Not less is said of the efficacy of issues, applied on the inside of the thighs. Of cure effected by these alone, not less than 8 or 10 are recorded. These having been recorded by such men as Me Bride & Darwin, there can be little doubt but that they really took place. When issues are objectionable, either from the prejudices of the patient, or any other cause, you may substitute perfectually blisters, applied to the wrists. They were very much extoled by the late Dr. Rush who believed them quite equal to issues.

The general remedies on the tonicks, so much while on in the newous & spasmodick affections. Back & valerian at one time enjoyed a high reputation; but wither of these, nor any of the vegetable tonichs, are now much employed. A quat deal more confidence appears to be placed in the mineral articles, especially in the preparations of eopper, white vitriol, & the preparations of silver. Cures are said to have been performed by each of these, & two remarkable cases are recorded in the medical journals by Dr of Mork in England. It was stated by Dr. Rush that cures had been effected by white vitriol. Neither of these medicines has ever been used by me.

in carriage on on hoseback Beech & Buckey and who was the was the second with the second of the second Later and the state of the state of Entertaining a conviction that the pathol ogy of the disease which I have delivered to you is correct, I have always accordingly, in the cases which have been presented to my attention. My plan is, in the first, to inculcate the importance of studiously avoiding all the exciting causes of the complaint; & in the next plaw, to consider the case exactly as one of gout, in which all those remedies must be employed that are bust adapted to an atomick & disordered condition of the stomach, so that the disposition to spasm may be done away.

It is essential that the diet should be light to very easy of digistion; that the bowels should be heft open, & that exercise by gestation should be moderately employed. Riding on horse back will sometimes cure the complaint; but walk-

As respects medicines, such as are applicable to desphepsia, will answer exceedingly well. But when a strong impression is demanded, the remedies for the cure of spapm, to which townshich I have already alleded, may be called in with advantage; though I have never seen a case which required them. I allede to the mineral tonichs.

Martial preparation

Of preventive of attack.

Plethora should be quarded against by purges & a low diet, or V.S.

In this way I have managed angina pectoris I have met with such success, that I cannot help recommending my plan to your attention. Whether the cases I have met with were the genieve disease, I cannot positively say. But certain it is that they were marked by the ordinary symtoms, I were considered the real disease by a large number of the most respectable practitioners of this city.

After all, however, you must not expect always to cure angina pectoris. Cases of it which have existed for a long time, are generally attended with organich derangement, & when this happens, they will prove wholly intractible by any, or every form of practice.

213 Million Starts be award of against to provided edles I am not his shoul one . Out within it is the they war granted by the backering in the I new considered the west directed by a love him been the most infulable practitioned of this take in the regarded decongressed to when this hopping they will prove what findered

Pulmonary Consumption.

to conclude the consideration of the morbide affections of the lungs, it only remains to deliver some account of pulmonary consumption. This is an undertaking on which we enter with little encouragement or satisfaction. Confessedby, no case of disease is involved in more obsencity, & there is no one in which the powers of our art are exercised with less certainty & advantage. It would appear that our want of success is partby owing to inherent difficulties of a very formidable nature, & is also, perhaps, in some degree attibutable to ourselves. An ulcer of the lungs, which constitutes, undoubtedly, the worst form of pulmonary consumption, is necessarily tedious in its cure, from the loose parenchaginatous structure of that organ. The same happins in all parts made up chiefly of cellular texture. An ulcu scated in such parts is coeters paribus more difficult to heal. The difficulty arising from this cause driving from this cause is augmented by the movement of the lungs in respiration. By inspiration & experation alternate contractions & dilatations

18.212 Pulmenty Commission.

take place, & these disturb that state of rest which is necessary to the healing process. To these two causes, we may add a third, viz. the constant exposure of the when to the air which, undu all civeumstances, proves very injurious in this respect. Denude an when in any part of the body so that it may be constantly exposed to the action of the air, & you will find that the process of healing is much retarded. Notwithstanding these interruptions, however, we know that wounds of the lungs, of various kinds, do heal, without much delay or difficulty. To this end we have the testimony of many practitioners, especially of Those attached to armies in actual service. Hence, it follows that the obstacles to the eure, proceed, in a great measure, from the attend condition of the pulmonary organs by disease; & that the difficulty is principally owing to the nature of the morbid action, as we shall presently see more fully illustrated. But as has already been hinted, it appears to me, that for our failure in effecting curs in these cases & for our having no distinct notion regarding them, we are ourselves in some measure responsible. We include under one head a great variety of pulmonary affections,

100 them there is & they will be a start with male lody to that it was to forestly explained to the is a broking is were to trusted. Notice Walled to of the lange of the leaves hands, to head nothing by alter the to second for actions describe the follows that the wishout to the cure, here in where the medical from the allies and here deflected to be in the the facility to the material of the surveyed interder, in war should highwally when are fully the Salet . West as has already before of the of the so in the state of the gas and designing

& apply with no discrimination, the same practice to each of these diversified complaints. My deliberate conviction is, that this sweeping soit of generalization is as mischievous in this as in any other case of disease, & that the first step of reform, both in the Montecial & practical view of the subjut before us, is to contemplate it in its more minute & individual aspect. The word Phthisis signifies a distruction or wasting, & when applied to the pulmonary affections, denotes an ulcerated condition of the lungs. But, unquestionably, cases commonly considered as consumption may exist, en their course, & end fatally, without the slightest lision or uluration of this organ. All writers who have heated of this complaint, with hardly one solitary exception, consider uluration as an uniform concomitant, & make it an assential inquodient in the definition. Cullen tells us that pulmonary consumption is emaciation & debility of the body with cough, heetic fiver, & a copious expectoration of hus. It is evident that he here insurales the existence of ulcers, & this more plainly appears in his subsequent history of the disease. By Bayle, in his discription of the disease, it is laid down, that * Phthisis in all ages from the child within the year to the patriarch; but most commonly in younger life.

The disease continues an indefinite time. Cases are mentioned by Bayle which terminated in 27 days; others where 40 years clapsed before death took place.

action at our tiley through place his his his his and the second of the second o Portal 14. Morton 16

every organich affection of the lungs which, left to itself, produces progressive disorganization succeeded by ulears & followed by death, should be considered as phthisis pulmonalis. It is not my intention formally to criticise on either of the definitions above stated. They appear to me defective in several respects, & especially because they exclude many diseases which, however they may resemble consumption in all their synthems, are unattended with ulwation.

It is difficult to define consumption, so diversified are the forms which it assumes in diffuent cases. No practitioner has ever met with the complaint so unequivocal in its characteristicks, that when called on to include all the varieties under one definition, he would not be greatly embarrassed. To obtain precision in this case, it will be better to consider each specus distinctly, & such a plan I shall now purone.

By the old writers, & particularly by those much addicted to artificial arrangement of diseases, consumption has been divided with about minuteness. Eighteen species of the complaint are made by Sarvage, & the catalogue

The tubucles are intualed in the cellular obsection & not in the air cells, is formuly imagined. They are white or groupish, & are inorganish - no verils exist in them - the smallest are called mibliary

has even been increased by some modern nosologists. As, in my opinion, the only reason for the division of diseases is to obtain particular precision, I shall be content with proposing the subjust to you under a much more limited number of forms.

The first opener which I shall treat of is commonly designated by the term Inbercular Consumption. Before proceeding to describe the symtoms of the case, I shall say a few words on the nature of & appearance of the tubercles, which are supposed to be the cause of consumption. As the meaning masses of inducated substances found in the lungs. By Stark, who has given us the best account of these, it is said, that on dissection of persons who have died of this disease, the tubercles are found of all sizes from that of a grain or granule, to the bigness of a chesnut or horse bean, & are generally found in clusters. On cutting into them, they appear of of a white, smooth, cartilaginous nature. In the smallest ones no opening is distinguishable; but in such as are forther advanced apertures like himholes, are discoverable. The tubercles which are still larger have one or more cavities containing a

*By Lanaer it is ameted that when a person tobours under tubereless consumption, tubereles are found in other parts of the body.

Brughe & Lanaer Day they arise without previous inflammation - lest I have no doubt they arise from that opinies of inflammation which Bright has denominated serous or lymphatiche - white inflammation, no doubt modified by a serof-ulous diatheris-

fuid resembling pur which being removed, small openings are perceptible, & more purcelent matter may be pressed out by pressure between the fingers. The largest tubereles, on being empted, are found to be capsules into which enter branches of the wind pipo. As relates to their origin or mode of production, nothing precise or definite is known. It is generally supposed that they are intimately connected with a strumous or scrofulous diathesis; & by some it is al leged that they are more enlargements of the lymphatich glands. But whatever may be the correctness of the first part of the proposition, (which is sufficiently established, at least, in a large proportion of cases) The swood part is wholly unfounded. To express myself more clearly, I entertain little doubt that the tubercles are intimately connected with a scrafulous state of the system : but I do not believe that they are constituted by enlarged lymphatich glands. No part of the body has so few of the glands as the lungs * & even admitting their existence, there cannot be one where there are 100 of the tubercles. By The dissections of Bayle, it oppears that they are occasioned by mere depositions of matter from the capillaries; that some of these are cherry; some cartilaginous; some osseous, & that, occasionally, they

A Both They may act as an irritaret & produce heetie from, even if sufferation does not take plan, & and are then called ofen varnia.

are composed of matter which cannot be compared to any thing, so puediar is its nature. Thus formed, The tubucles often remain for a length of time, some times for many years, indolent & inactive, with little or no increase in the over. At length however, excited by the ordinary causes of inflammation, they take on a morbid action, & constitute the disease called pulmonary consumption. At first then tubercles enlarge, become red & more varcular. Then in the centre, one or mon eavities are formed into which are pound small quantities of pur. These cavities gradually increase, & the tubereles by degrees loose their compact structure, & are converted into abscesses, denominated, in medical language, vomica. These busting, discharge thin contents into the bronchia. After the rupture of the abscess, the uleer rapidly advances, till finally the whole substance of the lungs is distroyed or involved in one mass of disease. It is now that hectic fever makes its oppearance, & the strength of the patient sinks with prodigious rapidity It some times happens that only one tubuch at a time takes on the suppurative action, & under such circumstances the progress of the case is exceedingly lingering & protracted. Now & then the ule heals, &

+ This opinion is forther confirmed by direction - Bayle & Lancer have found cications. # 91 repelled emplions as t and developed toelf about proberty but a

a temporary remission or suspension of the disease, encourages the hope of an entire recovery. But this state of things is delusive, & does not long continue. One or more of the tubereles inflame, & a repetition of the preceding symtoms takes place, & thus the case runs on, with alternate hope & disappointment, till at length the fatient becomes completely exhausted & sinks under the disease.

Of the exciting causes of consumption to which I alluded, The most common are catarrh; illeurid hulmonary inflammation; repelled eruptions; sedentary occupations, & particularly such as require the body to be continually bent, & those employments in which acrid & viritating particles are thrown off & taken into the lungs, as stone cutting, milling, quinding of needles, & working in metals from which fumes of an acrid & irritating nature are disingaged. To these may be added playing on wind instruments, as the flute & clarionet; debauchery, or excess in eating & dunking; The suppression of any accustomed evacuation, as the menses or hemovrhoides, X certain states of the air & peculiarities of climate, of which more hereafter. It is said that females an more subject to it than males.

Tubereles, in the commencement, are attended

without dysproce -

with slight & short rough which, after awhile becomes habitual, & is to little remarked by the person affected, & sometimes so little as to be absolutely denied by the patient himself. At the same time the respiration is easily hurried by much labour or exercise, & the patient be pain in the breast or under the point of the shoulder. This state will sometimes continue for a year, or even two years, without any complaint being made respeeting it; except only that there is a greater liability to be affected with colds than usual, which are frequent & difficult of cure. These, however, being supposed to arise from the ordinary causes, do not disturb the patient or his friends, & Therefore lead to no precautions. On one or another of these occasions the cough becomes more considerable & is particularly troublesome on laying down at night, Frequently, at This period, a small visual gives way & tinges the mucus with blood, This calls for the closest attention, especially if the increase of cough comes on in the nummer season. Perofula is always more alarming in summer than in winter, as it denotes a firmer fixture & establishment of the dinase. The eough, when it first comes on, is, for a considerable time, without expectoration. But when from repeatedly

There is generally pain in some part of the chest; but I have known the disease to nun on without, any pain or cough till the latter stages.

show in whom a the pale, the his in the field

jelist , dies at 1. The adopt les hi worse front colored

catching cold, the patient is offerted with a severe cough, there is then some expectoration, which is more considerable in the morning. The matter thus coughed up by degrees becomes more copious, more viscio, & more opaque. It length it assumes a yellowish or greenish colour, & a purulent appear and. The whole of the matter, however, is not ohanged in this manner; but while one part retains the appearance of mucus, the other is changed as above mentioned. The pulse, which in the first stage was quick & viritable, now becomes hard & chorded, & sometimes is not affected during the whole disease. The adnata becomes heart colour & glassy; the cheek bones prominent; the countenance haggard, colliquative diarrhae ensus; adematous extremities, & finally aphtha of inability to expectorate, & The sufferer wither which gradually dies, or instantly suffocates. The species of the disease most certainly fatal & at the same time difficult to be distinguished, is where every symtom exists, but there is no cough or expectoration in the least. As the complaint progresses, the cough becomes more frequent, & particularly broublesome at night. The matter assumes still more the purulent appearanco; & The emaciation & debility are increased

t get this is not universally the case - it often occurs in those in whom these marks of a motulous diathers are lost

By Bayle the dinare is divided into six shows - 1. Tubercular, - 2. Granular, - 3. Melanosis, - 4. Ulcerous, - 5. Calculous, - × 6. Cancerous. - Me might also have added, Osseons. It is admitted by Bayle himself that it is difficult, if not impossible to distinguish these difficult varieties before death; & I am not award that any advantage would result from the knowledge, even if it could be obtained - all cases would prove alike fatal.

from the occurrence of hectic fiver.

This is a very short account of pulmonary consumption as delivered by Dr. Duncan, a Professor at Edinburgh, & a physician of great eminene. It is not very defficult to distinguish tubercular consumption from the other forms of the disease. Bisides the pullarity of circumstances under which it commenas, There are almost always purcharities of four & constitution which predispose to the complaint and assist us in forming our judgment: such are the long & delicate much, the narrow chest, the prominext shoulders, the high check bones, delicate complexion, thick upper lip, light hair, thinness of shin, large, prominent viens, weak voice, much sensibility, great vivacity of mind, & all the other signs dinoting a scrofulous diathesis. +

We now come to the treatment of this form of the disease. It is obvious that this must be exceedingly different under the various circumstances of the case. The indications, however, in the first stage are clearly marked out. The principle or leading object is, plainly, to suppress the progress of inflammation in the tubercles, so as to prevent suppuration, and its mischievous consequences. If the remedies calculated to meet this in dication, the most powerful and discouries in marchardlade, ventilitien all it

efficacions is, undoubtedly, venesection. It is now nearly a century, since this remedy was wintroduced into the management of the early stage by the celebrated Dr. Dover, well known to you from the powder which goes by his name. It was advised by him that at first a portion of blood should be taken every day for 8 or 10 days, & afterwards every 2 or 3 days, for as much longer time, so that, in some cases, the patient was bled more than 30 times. By this abuse of the remedy, it fell entirely into disuse or discredit; and, as often happens in such cases, a practice directly of posite was recommended. To the late Dr. Rush The credit is indisputably due of having restored the proetice, so far at least as regards our country, & of requlating with a sounder discretion & a wiser judgement. To you, into whom the principles of medicine have, so carefully instilled, I need not remark, that in This & other eases, you should be governed in the use of the lancet by the condition of the pulse & by Shore other circumstances which assist us in obtaining a knowledge of the state of the system. As circumstances which should influence you in the employment of V.S., you should always bear in mind, on the one hand, the vast importance of subduing inflammation, I on the other hand, the

of the state of the said the said to the strength of the strength o and her the man it will and many many the

extreme debility which often attends the case, & The direct tendency of the remedy to hasten & increase this exhaustion. After you have bled your patient as far as you may deem it prudent, you may next usort, as auxiliary means, to topical bleeding. This is to be effected by the employment of cups; I most undoubtedly, the greatest advantage results from this remedy in the early stage of pulmonary consumption. It is, I have reason to believe, in the generality of cases, preferable even to the use of the lancet. It relieves the inflammation of the tubereles as effectually, & does not, to the same extent exhaust the strength of the patient. But if there is much four in the circulation, & other unequivocal signs of active inflammation, then have recourse to the lancet, & employ it very fuely. There are indeed cases of consumption, in which depletion in no form can be employed, the debility existing being so great, that the detraction of the smallest portion of blood, would be followed by the most serious consequences. Here we may never with uniquivocal utility to the use of what is called dry cupping, or in other words, the application of cups to the whole chest without previously making scarifications. The manner in which the remedy operates must be perfectly intelThe same sed have the letter was at the most proper. Without for for the second of the think doing hearly dread you have been been all and dread of the first deric service in the second that we are the last the collection Heterlick those our new Miles in

ligible to you all. It invites the circulation, to the lungs to the surface, & thus obviates the inflammation, & retards the advancement of the tubercles to suppuration. This mode of practice has been much adopted in this country, & in altertation of its efficacy, we have the testimony of the most respectable physicians. It is a remedy of which Dr. Physich is perfectly enamoured from the good effects recently derived from it, by him, in several cases of pulmonary consumption.

The immense advantage of establishing some counter irritation in this complaint has long been known & acknowledged. This is accomplished by a blister, seaton, issue or any Thing of a similar character. I do not believe that there is much difference in the efficacy of these three modes; & you may employ the one or the other as you find it most convenient, & least objectionable to the patient. But to obtain the full effect from the blisters, they should be hight so as to produce a considerable discharge, & then dusaed with stimulating ointments. Of late it has become very much the fashion, as well in Europe as in this country, to substitute the application of tartar emeticks, to which I have on more than one of* More advantage will be derived from the repetition of the blister, than by keeping up the old one.

casion alluded. But I have reason to believe that this is recommended by very little except its novelty. It has frequently been tried by one within the last eight years, & I am not sensible that I have derived from it so much advantage as from the perpetual blister. It is useful but not more so than the old fashioned vericating applications. It is far more disagreeable to the patient, inducing more pain, & Therefore is more

obstinately resisted.

Emetichs have been qually extoled in the earby stages of pulmonary consumption. That they are beneficial cannot possibly be doubted. To This point a vast deal of evidence might be colletted from all the writers who have heated of the subject. They operate efficaciously in different ways. First they permanently equalize the circulation & excitability; & secondly they promote absorption, as is proved by the effect in dispersing buboes & other glandular tumours. In addition to these, they operate beneficially in a manner which cannot readily be explained. If this fact I am convenced from having again & again witnessed their effect in a great variety of cases. Much difference of opinion has existed as to the comparative pow-

are a complete and a second of the second of absormer commenced, compleyed, till have the file have by the surface of car a felicing to in a mission it stilled the first with a court between the first will be forther the forther the forther the and the second second second second second second second second second

ers of different emetichs. Specacuanha, however, is generally preferred. It is a medicine which I have commonly employed, & I have always had reason to be satisfied with it. But the white vitriof is prefered by some of the European writers, who declare that it is better adapted to consumption Than any other emetick. May it should be so, has by no means been explained in a manner satisfactory to me. That, however, you may derive the full advantage of vomiting, you should not too suddenly disist. An emetick should be given daily for a week, or even two or three weeks, in order that it may prove serviceable in the disease. By this frequent repetition of the remedy, you imitate the effects of a sea voyage which has so often been beneficial in phthisis pulmonalis. During my residence in England, this practice was chiefly relied on, especially in the English Hospitals, in The first stage. Like all other modes it was followed by various success. But, on the whole, it appeared to me to justify the high degree of confidence reposed in it. Certain it is, that I have often seen tubercular consumption, in the early stage, removed by repeoted vomiting. Dr. Simmons has witten the most able work or this subject. His experience was

with the the test of the second land the test of the second and some the special and the will be

very ample, he traced every made of practice, &, at last, he was led to the conclusion, that vomiting used in this persevering manner was infinitely the Me most successful.

In my lecture of yesterday, I detailed to you some of the remedies employed in the first, or inflammatory stage of consumption. An a part of the same plan of treatment, it is very customaup at this stage of the complaint to recur to those articles, calculated to reduce the force of the einen lation. By many practitioners the saline purgostives are prescribed for this purpose, & Though sometimes beneficial, they vary exceedingly in their effects. you should carefully quard against an abuse of them, which is productive of mischief in every respect or variety of pulmonary affection. You should be content by merely keeping the bowels open. It is a much more common and perhaps safe course, to meet the indication before us by the antimonial articles in minute doses, alone, or in combination with nitre. What is denominated the antimonical powders, without the calomel, will be found to answer very well, & is qually employed in the practice of this city. It is, perhaps, known to you, that mercury has

staff in the ease of hard little will, the land of the think grammen on ladured late to external land . The form of the interest of attention of the second o at it is mirediscuring in morning land of their and the second of the second o

been highly extalled in every stage & form of pulmonary consumption. But this, though generally considered so, is, certainly, not a new practice. At long ago as the commencement of the last century, it was employed by Dr. Radcliff in the case of king William. And about the same era, it appeared to be the favourite remedy in pectoral complaints. It is also part of the treatment recommended by Mosely in his celebrated dissertation on pulmonary consumption. It appears, however, that, except in some cases hereafter to be mentioned, the practice lost all its reputation, & for a great length of time was totally abandoned. That it is occasionally beneficial in phthesis pulmonalis cannot possibly be denied. It would be perfectly easy to collect, as occurring within my own personal observation, a number of cases of this disease, relieved, or perfectly enried by means of a Salivation.

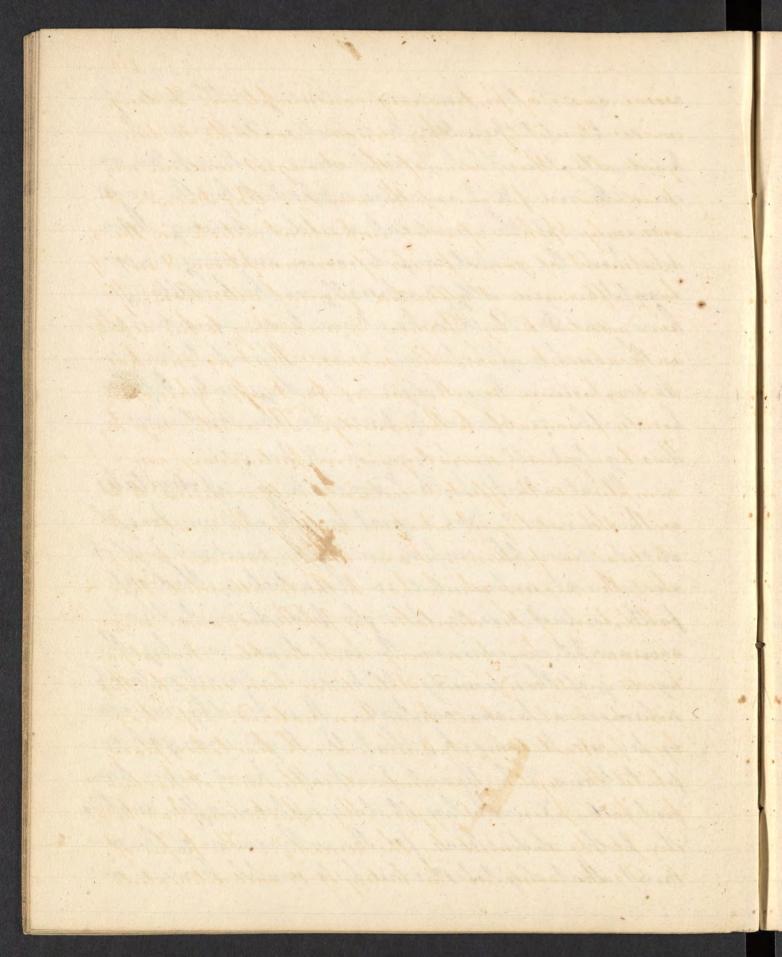
But not one of these cases, I am persuaded, was geneine, or tubercular consumption. The form of the disease to which mercury is applicable shall presently be designated. It is enough, at present, to state, that it is mischievous in every stage of scrofulous or tubercular consumption; & by no practition-

that I be here in the second of the second or the second of the second or the second of the second or the second o All are are also the first of the second of the first of the second that is the first that the first

er, either here or in Europe, is it now prescribed under these circumstances of the disease. During that period when the most sanguine expectations were indulged, especially in this country, with regard to the powers of mercury over that horrible complaint, the medicine was generally indiscriminately employed in every case. The consequence was, that It produced so much harm as to deter practitioners from using it. So that, at present, it is pretty much abandoned, wen by those who formerly placed the atmost confidener in its powers. Why mercury should be prejudicial in pulmonary consumption, considering its great utility in surofula is not intilligible. Exactly the reverse would be expected, if we were to rely on analogy alone. But of the fact of its doing harm in scrofulous consumption, not the slightest doubt exists. It will, indeed, in some cases, operate most poisonously in this complaint. More than one instance I have seen where The disease was in the incipient stage & the patient still able to attend to his occupations out of doors, but mereny being given, he was instantly rendered worse I in the course of a few weeks destroyed. A rapid increase of all the symtoms took place, with a de-

no develorment procedure to very order the tax as all and the second no sentiment puedian to myself. As far as I know, all the ablist practitioners of this place comcur with me, & I am also supported by the united experience of the medical world. Among those who had the quatest confidence in mercury in commentation generally, & especially in the hereditory hind, was Dr. Rush, who, at one time, considered it as the anchor of hope in the complaint before us. To my certain knowledge a few days only before his death, he refused to prescribe the medicine, having lost all confidence in its powers.

What report shall I make to you of digitalis in this disease? Not a great length of time has elapsed, since the confidence of the medical publish was almost unbounded in the article. Medical faith, indeed, was so strongly placed in it, that consumption, even in the last stage, was by the agency of this remedy, to become almost entainly submissive to our control. It is hardly newsony for me to remark, that the high brought expectations, & brilliant prospects, have never been realized. Nevertheless it does appear, after making the proper deductions for the enthusiasm of the moment, that digitatis manifests ample powers in



some cases of pulmonary consumption. To deny, indeed its utility in this dinase would be to discegood, altogether, some of the strongest widener ever produced in favour of the remedy. By Darwin it was early Spoken of as an important article in the treatment of some form of consumption, & not long afterward it altracted general attention. It was resorted to by Ferrier, &, according to his report, with almost invariable success. But no one has had experience so extensive as Dr. Drake, & his opinion is favourable to the remedy. The article, soup he has been given several years, in pulmonary consumption with effect, & certainly will continue to be with the intelligent whatever may be the result of its trial in phthesis. I am happy, however, to say that the success which has hitherto attended The exhibition of the digitales in phthesis, under my observation, has been very considerable. Several patients in its confirmed state have been cured by this umedy, & almost all have been realized. Life has been protracted by it, I when death has taken place, whilst the system was under its influence, it has been free from pain & struggles. My expectations have been completely answered by the remedy". The paper of In. Drake contains the history of 15 well delineated

was and affected to they to who got a first to got the they will I limited lader adjach to the start to leave the first fitting to The same of the sa

eases of consumption treated by digitalis, & the result was, that 9 were cured, one greatly relieved, & 5 died. Then eases, if authentick, are alone bufficient to entitle the remedy to a great degree of confidence. But I doubt exceedingly whether so large a proportion of cures in pulmonary consumption were ever effected by a single article, or by any combination of remedial articles whatever.

Nearly about the same time that Dr. Drake experimented with the digitalis, a series of trials were also instituted by De. Fowler with less effect. Next came the alibrated Dr. Beddoes, who, in his treating on consumption, after having informed us that his own experience fully verified the observations of the two last mentioned physicians, uses the following forcible language. "I daily see many patients in pulmonary consumption advancing towards recovery with so fair a paw, that I hope consumption will hence forward, as regularly be cared by the foxglove, as ague & fever is by the Feruvian back. Could we obtain a single auxiliary for foxylow, as we have in many instances for the back, I should expect that not one case in five would terminate as 99 in a 100 have hitherto terminated. But I believe that a majority of cases will yield to digi-

talis alone. It is evident that no new eases may be suffered to advance beyond the first stage, In the year 1800, Dr. Macquenner, physician general of the naval hospital at Plymouth, in England, determined, if possible to settle the greention by an extensive & diversified series of experiments with the medicine. He possessed every advantage for accomplishing his purpose. The cases which came under his care were numerous, & being in a publick institution, he could insure Those observances in the exhibition of the article which were necessary to the fulfillment of his design. But with every allowance for the peculiar circumstances under which he was placed, his success was extraordinary & wholly unprecedented. The whole number of patients amounted to 77, of which 53 were advanced to the purelent, & 24 were in the incipient stage. Of these 44 completely recovered, 23 discharged much relieved, & 10 only died. It is worthy of remark that in all These cases of recovery, The pulse was reduced very considerably below the natural standard, & the amendment always appeared commensurate with the degree of reduction of artiral action. In the medical journals of this period, many cases

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& generally by respectable practitioners. From these we may collect, that this article frequently effected cures; & even when it failed to do so, it almost invariably produced an alleviation of the distressing syntoms.

Notwithstanding all the accumulated reports in favour of digitalis in consumption, of late it has unequivocally lost much of its reputation, & sums rapidly to be falling altogether into disuse. To the extreme praises succeeded more temporate applause of the practice in consumption. Comparatively, little has recently been said of it. The periodical journals no longer contain any cases of its efficacy, or discussions aelative to its powers; & those which so short a time ago recommended its employment, regularly, in the treatment of consumption, do not, at present, mention it as a remedy of much importance. But this is running into a contrary extreme. No doubt can be entertained of the efficacy of forglove in some cases of consumption. It is equally true however, that the success has been very variable, &, for the most part, extremely precarious. It appears that many cases under the denomination of phthesis pulmonalis are recorded to have been benefitted by the

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remedy; yet when the symtoms have been so far advanced as to be unequivocal, the benefit was not permanent: &, on the whole, we may safely affirm, that the degree of success is much less than has been stated, & Than we had reason to expect. Determining from my own experience, I should state that the medicine is applicable only to the earby stages. This, indeed, appears to be the view taken of the subject by all the late writers whom I have consulted. A late work of Dr. Hinglake, more celabrated for his treatise on the gout, 14 cans are recorded, chiefly in the incipient stage, in one half of which, digitalis was of duided advantage. But in the ulmation or suppurative stage, only one cure was accomplished by the remedy.

By Dr. Mc. Lean, a late writer on phthesis, it is stated, that the forglove will sometimes curo when the most approved remedies fail. When of itself it is insufficient to subdue the disease, it will prove a valueable acceptions to other means. It has always, with me, quieted & soothed the sufferings of the patient, & when it ultimately failed, it lengthened the duration of life & smoothed the avenues of death." He goes on to say; this is all, I apprehend, it will be found capable of performing; but

1 " the straining of the state of t The second secon and the same a sufficient account for This is doing a great deal. Those who expect won ders from it, or that it will in general, cure consumption, will be disappointed?

In a still more recent work on the complaint by Dr. pretty nearly the same language is held. (Here Dr. Chapman read from the work alluded to, beginning with the remark, "that only in the incipient stage could we expect any advantage.")

In the preceding review, I have treated with some miniteness, the progress of opinion relative to the hower of digitalis in pulmonary consumption; so that you may be enabled completely to appreciate its degree of efficacy, & to determine hereafter when you shall be engaged in practice, how for that celebrated remedy is entitled to your confidence. Notwithstanding, however, all that has been said the outject, the case of pulmonary consumption has not been clearly made out, in which digitalis is most applicable. After all, much must be left to that sagacity & power of discrimination which are derived only from observation & reflection. But I must umark, that according to the late experiments and digitalis, it is alone suitable to the early & incipient stage of the complaint. Even here, however, in some

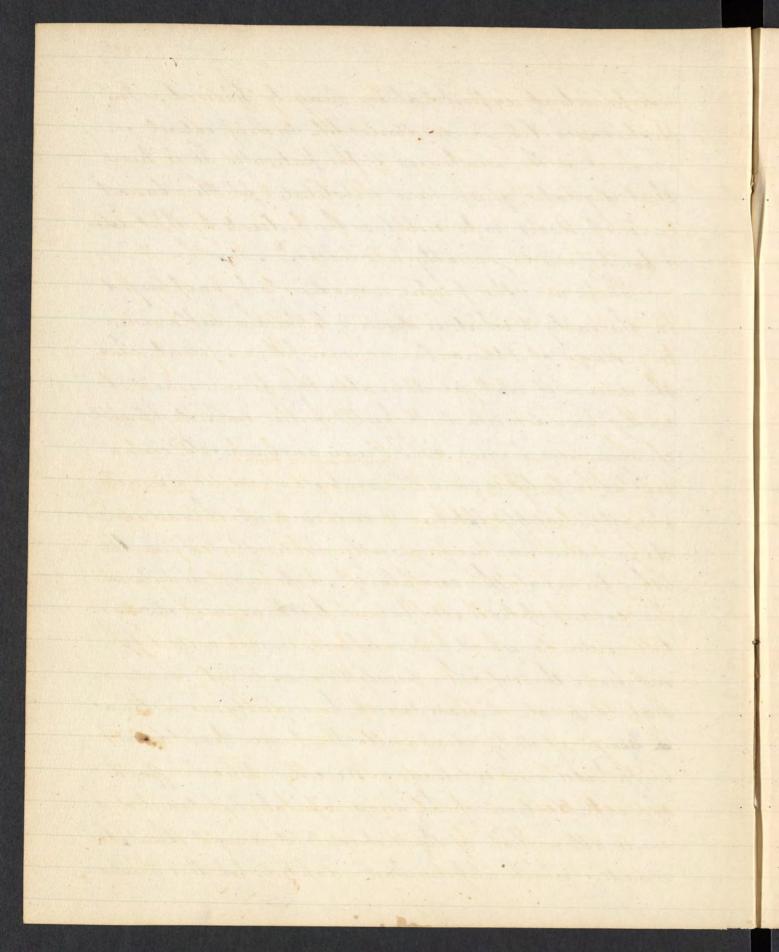
and from the contraction is nion relationed to

cases, it not only totally fails in effecting a cure, but produces manifest injury to the patient. Of all remedies, it is the most equivocal; &, respeeting its effects in any case, it is impossible, with the least certainty, to determine a priori. In my very last consultation with the late Dr. Wistar, he asked me what was the result of my experience with regard to the fox glove. I told him, that even in the forming stage, I had been so repeatedly disappointed, & had so often discovered that it was productive of mischief, that at one time I had resolved never to employ the remedy in consumption; but that now & then, in desperate cases, I had been so much delighted & surprised at the affects it displayed, that my determination had been overcomo, &, under certain circumstances, I was now in the habit of resorting to it. He told me that he fully concurred with me in my estimation of the medicine. The case in which it was most givenally found beneficial I will state to you. Now & then those in delicate, irritable habits a slight hamoptysis, attended with cough, pain in the side & breast, an accelerated pulse, & considerable debility, in which The symtoms are sufficient to excite great solicitude for the safety of the lungs; though neither dysproca

* The prussie acid has been and with different

nor hurnlent expectoration may be present. In such cases V.S. is inadmissible to any extent on account of the weakness of the patient. It is here that digitatis, given as a substitute for the lancet, in such doses as to substitute the pulse & heep it down, is found most generally to succeed.

There are the proper remedies to be employed in the early & what is deemed to be the inflammatory stage of tubercular consumption. But when the disease is not arrested, abscesses form as has already been described, & heetic fever with its horrible consequences, ensues. The case may now be considered as entirely beyond the control of medicine, and almost inevitably fatal. Cures even at this advanced stage have not unfrequently been effected in the other forms of the complaint, but never in tuberen lar consumption : to far at least as my observation extends, which, I suppose, is not very different from that of other practitioners. But wen under These disperate circumstances humanity as well as a sense of duty demands that we should not withhold our exertions. We can at least affords some palliation of the more violent symtoms, and some alleviation of the distress, & it is right that the remedies which appear least adapted for this purpose,



should be fairly tried. The leading indication at This conjuncture is to abate The hectick fever, which is so exhausting if permitted to continue unresisted. But of this affection, & of the remedies suitable to it, I formerly so fully treated, that nothing at present remains to be said. Whether it arise from abscess in the lungs or any other part of the body, it possesses an identity of character, & is to be managed by the same means. It uniformly wears the intermittent type, & exacts the same remedies as those which are employed in the ordinary fever of this discription, vir. Derivian back & the other vigitable tonichs, to which may be added arrenich, sugar of lead, sulphur, & certain preparations of steel. As this species of consumption is so generally thought to be of the nature of scrofula, it may readily be supposed that the remedies beneficial in the latter case have not been overlooked. Consulting the writers on the subject you will accordingly find, that the whole of these, as opium, duleamara, humlock, quiacum, sarsaparilla, H. have been administered, & with no advantage. My success with nitrick acid in healing scropulous ulcus, led me to hope, that benefit might be derived from it, under cutain airumstances, in consumption. I have,

* He found vinegar most efficacious in heetich fiver.

of some advantage.

Some remedy for this fatal malady, Dr. Roberts, a distinguished physician of London, has lately instituted a series of experiments with almost every article of the materia medica. Besides the remedies usually employed, he tried the nitrate of silver, the white axyd of manganese, the black oxyd of everalt, the muriate of barytes, & phosphocick aid. But most unhapily he did not necessed, & his publication is only a record of his failure in his well meant endeavours in the eause of humanity.

I had in my last lecture on the subject, arrived to the second stage of pulmonary consumption, & delivered an account of those general remedies, best calculated for the treatment of that complaint. Of late the practice has been revised in this city of attempting to heal alors of the lungs by the inhaling of certain verlnerary & balsamich substances. What is the precise degree of benefit thus derived, I am unable to say very positively. My own experience is not very much in its favour. Though I do not absolutely condemn the practice. More than one of my medical friends speak favourably of it, & I am not disposed to

contradict them. The articles employed for this purpose, are the terebinthinate preparations, and The balsam of Tolu. The former I have uniformby found so irritating to the lungs, that I cannot help thinking them highly organious. They always excite cough, & Thus very much aggravate the complaint. It was remarked by me that his is an old practice renewed. That it is so, There cannot be the slightest doubt, Though it is claimed as original by those who have lately recommended it. But in Bennet's alebrated work on pulmonary consumption, which was written 100 years ago, I find that the practice is strongly advised, & particularly the inhaling of the pumes of sulphur & the balsams. Could we believe half of what he has said on the subject, we should entertain a high opinion as regards the efficacy of the remedy. By this alone he avers that he has frequently been able to heal when of the lungs, & thus to effect a cure of the disease. Not long after Bennet, Dr. Medge, the inventer of the inhales which bears his name, recommended the vapour of sulphurich other. The elebrated Linnear of terward suggested the hypericum, a resinous article, as superior to any which had been previously tried.

+ The best is made by pouring a pint of boiling water on an ounce of balram of Toles.

Stamonium, tobacco & opium may be smshed.

The inhalations of two is very beneficials in reliving dyspince by repromoting expectoration.

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But of these articles, the other is undoubtedly the best, & may be administered alone or impregnated with hemlock. Take 3j of the powdered haves of the hemlock & 3iij or iv of other; & after digesting them together for 2 or 3 days, apply the liquor to the month of the patient in such a way as that he may inhale the vapour. This is exceedingly useful in pulmonary consumption, &, if it does not effect a cure, it relieves the cough, dysphoca & approximation.

On principles not altogether different the inhalation of atmospherich air variously combined with the virespirable gases, has been tried. To give this remedy a fair trial, the late Dr. Beddown established at Bristol, what he called the Pneumetick Institution. It was proposed by him to inhale carbonick acid gas; under the impression that it would correct the foul ulus, It dispose them to take on the healing process. But howwere plausible in speculation, when put to the test of actual practice, the remedy, I have reason to believe, proved wholly unavailing. There is no ease, as far as I know, on record, of a cure of pulmonary consumption by this management.

Exactly similar views suggested to the same enthusiaster, that the patient should inhale the vapour

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from cows. To effect this, the patient was required to continue day & night with this animal - to live in the stall as well as sleep there. Abound as the practive may appear, cures in 2 or 3 cases have been effected in this way. One was in the daughter of the celebrated Dr. Priestly, & The other in a lady of distinction in England. How it operates is not at all intelligible. It is said, however, that the vapour from the breath of the cow has a salutary effect. As you may readily believe, I am exceedingly incidwhous as to the utility of this remedy, & would by no means recommend an imitation of the practice. It is, however, sufficiently acrious to be mentioned, that those persons, whose avocations lead them to great intimacy with animals, & particularly when they recure the exhalations from their careases after slaughter, are totally exempt from consumption. From the extensive inquires of Dr. Beddoes as to the modes of left or employments most aft to favour, or to oppose The prevalence of consumption, it appears, that, of all the butchers in England, hardly a single one was affected with the disease, or had a tendency to it. Janners & curriers are likewise said to be exempt from it. It is also said that those who work in animal jelly, particularly the manufacturers of glue, equally escape the complaint.

ancesting land the Among the other projects for the cure of consumption, is placing the patient in a hole dug in the earth. The practice was originally brought from Spain. Notwithstanding some attestations in favour of the remedy, its efficacy is exceedingly problematickal. It was tried by Dr. Duncan & other physicians of Edenburgh when I usided in that city. But so far was it from doing good, that it aggravated the complaint by inducing catarrh. If the praction had been used in Suland instead of Scotland, it would have been considered as a blunder or a bull. To place the patient in the grave, seems more applicable to one who is already dead, than fitted to effect a cure in those who are alive.

As the disease advances certain affections arise of a nature so urgent as to demand particular attention. As these are symtomatich, all that we can do is to palliate the more distressing & to effect a temporary relief. Of the affections alluded to, one of the most troublesome are the night sweats. As these arise from debility of the exhabits, It is, most effectually checked by applications made to the parts affected. By sleeping in flannel alone, I have known the effect to be produced, I especially if the surface were previously rubbed with some stimulating article

The there was reported which will that

as brandy or salt. Of the internal remedies the most effectival are the mineral acids, especially the sulphwecks. This may be used alone, or in combination with the vegetable bitters, which also have bun recommended. Now & then advantage may be derived from prepared chalk, or oyster shells, or shat will answer still better lime water freely taken. Extrandinary as it may appear, I have known some mild directichs, as the juice of the water melon, payly tea, or even cold water to effect relief in the night weats. Their mode of sesating is very obvious. It consists in derivation of action from the surface to the urinary organs. Sometimes it happens that the recats are checked by strongly exciting the exhalents with the action diaphoreticks. The practice is of doubtful utility, & is rarely emplayed. But cases may own in which the remedy may do good. We often chuck diarrhoca by purging I on the same principle diaphoreticks may prove efficacions in the case before us.

As regards diarrhaa, another of thise offictions, I have already treated fully on the subject, & Shall not, therefore, detain you further. The remedies are precisely the same with those which are given in the primary form of the complaint. It is proper to state

+ Directions show that it defends on wheration of the ilean & large intestines. The best remedy

hurging at this period of pulmonary consumption is particularly mischievous from the extreme debitity which it induces, & hence should be checked as
soon as possible. To mention this is more important
because diarrhoca is aft to relieve the cough, and
check so much the other symtoms, that, if not ofprised of the consequences, the fatient, as well as the
practitioner, may be induced to suffer it to run on
to a dangerous extent. +

At this stage the cough which throughout is troublesome, becomes exceedingly aggravated & calls for relief. Most of the mixtures mentioned under the head of peripressmonia nother are here useful. The preparations of netrick and, & the milk of gum ammonias, are exceedingly so, X especially if there is much dysproca. It is here also that the balsamich articles sometimes eviner their very best powers. The balsam of Tole is to be prefered; though the copaile & other kindred articles are not without utility, I may sometimes be administered when the former is not applicable to the case. There is an article wended in this city & other parts of the United States, called the balsam of honey, which is admirably adapted to the last stage of consumption. It is essentially composed of the balsam of John; so blended,

however, with other articles, that the mixture is much more agreeable to the palate than the simple undisquised medicine. It is not long since great confidence was reposed in the balsamich remedies, in the complaint before us. But they were condemned by the celebrated John Fothergill, from their heating & stimulating qualities. Even since the appearance of his publication, they have been less employed, & now rarely resorted to, either in this country or in Europe. But I am convinced of their great utility, & that they are production of injury only when injudiciously applied. Employed as they formerly werd, in every stage & variety of cough, they do harm & course the patient to experience quat pain. But the fault his with The practitioner & not with the medicine. After all, we must chiefby rely on Opeum as a remedy for cough. Anoidingly this medicine enters largely into all the cough mixtures, of which it forms the most active ingredient, I in Shich it can rarely be dispensed with. When it produces no permanent impression, it relieves the more distressing symtoms & alleviates the disease. But I have waron to believe that it accomplishes more than men palliation. In those cases, especially, which arise from other causes than tubercles, I never derived

Id Oddemations expression whier wills worm brandy frictions, or landamin H: apphar by gargles

more benefit from any plan of treatment, than from the liberal use of Opicimo. This remedy, alone, cured a case completely, in the Alms House. It is perfectly well known that uleus of various kinds are healed under the use of this article; X it must be particularly applicable to those of the lungs in which it is necessary to keep these organs as much at nest as possible.

This concludes what I had to say on the subject of tubercular consumption. I should not have entered so fully into it were it not for the circumstance, that the beatment adapted to this, is also, with some variation, suitable to the other forms.

Catarrhal Consumption.

Sam next to call your attention to catarrhal consumption. This differs from the former species in several particulars. It owns without any constitutional predisposition or strumous dialhers; It instead of the substance of the lungs, it is seated in the membranous lining of the trachea & its camifications, the bronchia.

It commences always as a simple catarrh, & indeed may be considered as that complaint protracted &

Calamhal Consumpling.

confumed by ill management. It may generally be distinguished from tubercular consumption; though the two cases are sometimes analogous in all their leading symtoms. At first the disease puts on all the appearances of common catarrh, & is attended with cough, pain in the side & breast, with some sourcess of the throat, usually ascribed to the offorts used in coughing. There is much expectoration of phlegm & mucus which generally changes its character & becomes purcelent; X, at last, puro pus is evacuated. It is now that when one believed to exist by a majority of praelitioners. But this is not the case. Dissections of persons who have died of catarrhal consumption show that the purulent expectoration is merely a secretion from he membranows living of the tracked & branchia; & so far is uleration from being present, that it is said, that the lungs hardly ever exhibit any phanomena of disease in their structure. But from the high degree of inflammation which takes place, the mucus lining of the trachea & its branches are so offeeted as to produce a purulent secretion. Another peculiarity of this form is, that it is never attended with hamoplysis in any stage, & the matter expectsrated is generally unmixed with blood, or if at all

to have hardly in which it was the comment

tinged, it is only with small streaks, occasioned by the supture of a vessel on the inflamed surface. As relates to the treatment, I have not a great deal to say. Most of the remeders already mentioned appear to be indicated also in this species of the complaint. Being, however, more inflammatory in its nature, & occurring in a state of the system more robust than the scropulous consumption, it calls for a more copious employment of all the depleting measures, & these may be carried to a great extent with perfect rafety & unequivocal utility. Of the whole of them I so fully treated in the former lecture, that they need not again be mentioned by me. But it is right for you to know, that in one or two particulars, the practice is somewhat different. I am confident that in catarrhal consumption emelichs, so much employed by some in consumption, generally, are for the most effectual: & I would always recommend them to be steadily used, after the inflammation has been subdued by the more directly depleting remedies. But the best course of treatment is to place the patient under the impression of mercury, & to continue this impression moderately for several weeks. This is the case in which salivation should

down blown t. Breney lawren over millamore allan and explored to medicing in a short of the explored will from some colours and less in all the what is to find a salety & war granion to at the fig. Of the destrict them I to fell haded on the s con I that it is enough for you to discount had emelicks to much confilered to all, we for the most Lill by the sover desigth with first more there." established amprovement of moreing to de where their wint warm made at the land Le de les alien de

be invariably prescribed; as, wen where it is not effectual, it never causes any detrimental or houb-lesome consequences.

Apostematous Consumptions. The

To the two preeding specus a third may be added which is exceedingly common in cold elimates, & hence is very prevalent in certain portions of our country. In all cases it may be considered as the consequence of preumoniek inflammation. From the abscess in the lungs which always winks it is called apostematous consumption. There is so little difficulty in distinguishing it, that it is unnecertary to dwell on its history. Being occasioned by pleurisies, wounds, contusions, & other causes of active inflammation of the lungs, it may always be suspected when there has previously been any such disease or accident. But the symtoms are also different. A case of apostamatous consumption is attended with a deep realed pain which is fixed in some one part of the chust, while the pain in the other species is changeable & fluctuating. There is constant dyshnowa & appression & the cough is extremely violent Much mucus & phligm is expectorated till the absers ruptures.

and correlated a more mobilizing. * which may be known by rigors,

The treatment, at least in the early stage, is precise by similar to that which is employed in the catarrhal species. The object is to prevent the formation of an absects, I this must be done by subduing inflammation by are energetick employment of all the measures best calculated for this purpose . It is here that from the very commencement of the attack, we are to employ mercury for salivation, totally regardless of the state of the pulse, & the other symtoms of inflammatory action. Of all remedies mercury is the most effectual in suppressing inflammation in the great viscera, as we habitually see in the liver, spleen, hidneys, & certainly not less so as regards the lungs. Its efficacy, indeed, in the last ease, is so great, that I resort to it as a means of success in all obstinate pleurisies; & I am not certain that The remedy, under any circumstance, more advantagrously displays its powers. Do not, therefore, neglect a valivation in this openies of the disease, as the diligent use of mercury is of wast moment in the treatment. The absects, however, being found, it is important to discharge its contents, & afterwards to heal the uleer. It commonly ruptures spontaneously: but when this does not happen & there is an urgent necessity for the rupture we may accom-

When the abover project externally it may be punetured. withing of himment of

plesh the desired end by the administration of an emetil. But, in some cases, even after the obscess has bursted, not unfrequently the lungs are inflamed, If the dysproca & other distressing symtoms continue as before. It is here desirable to procure expectoration: & this is best effected by the inhalation of the vapour of warm water or vinegas, or what is infinitely to be prefind, the vapour of ether as formerly mentioned. Every part of the subsequent heatment in this case is so analogous to what has been already mentioned in tubercular consumption, that any further mention of it becomes superfluous. But I cannot refrain from remarking, that in some cases of apostematous consumption, I have derived so great advantage from a mixture of netrick acid & ammoniac, That I wish to press it particularly on your attention. Whether it is by the virtues of the nitrick acid, or of the other ingredient, I cannot determine. But that the preparation is hineficial by mitigating the cough, dyspnoca, & other syntoms there is no doubt, nor is it at all doubtful from the known properties of nitrick acid, that it is moreover up tremely useful by promoting the healing of the ulcus. I have before shown that it produces such an effect in some very obstinate eases; & I see no wason

* Opium is very useful & should be liberally exhibited -

why it should not operate in the same way with ugard to uleurs of the pulmonary organs.

After all, however, though occasionally the last two forms of consumption are cured, even in the last stage, yet it is our duty to attack the complaint as soon as possible, I com adopt such measures as will tend to hinder its occurrence.

The 1st step in this prophylactick course, is, giveerally, to ucommend the removal of the patient to a more favourable climate. By the general consent of practitioners, a climate day, temperate, & generally equable was selected for the purpose. But of late years, this long & universally received opinion has been questioned & the practice, of course, controverted. In one of my between on pathology, I remarked that the practice of Dr. Bond, a distinguished physician of this city, was to send his patients into miasmatich countries with the view of counteracting the disease, or the tendency to it, by inducing ague & fever. What was the result of this extraordinary expedient, I cannot exactly say, though it appears from traditional au-Shority, that it was not without benefit. The preceft taught by some medical men of England, is that The action of intermittents is an incompatible one, & when it is completely established, all other actions, and

. . . . chart the selection of the selection of the second Market of Supplied Supplied and Market that have of district the one good will see the and the of the our thinks to the state of Engineer of the state of the destroy day the second were the second when the state in the perpendicular to server for every of when to the granted remaining the Wardens of Money Conficiely & good all for the have seeled the the shower . But of the house Superior to the governor of a grant of the contract of the con A St. March and the National State of the Land of the declared to the the state of the court of the first or they I want have the filler as the region of waterfeel of a nearly the grant that I want to see the second the second the second Acrety Mark Property and with not before the fall for NO WEST DESCRIPTION OF THE PROPERTY OF THE PARTY OF THE P for the the sail for the thing to me middle for the fort for the grand,

especially the action of consumption, is suppressed & removed. It is called, in the language of one of these writers, a despot who bears no brother near the throne? To support their doctrine, in the first place they attempt to show, that throughout the world, where fiver & ague to any extent prevails, every other complaint vanishes; & this they assert is true as regards England. Thus in the country of Devenshire, by far the mildest & most temperate in Guat Britain, consumption prevails to a great extent, while there is not a solitary case of fever & ague . On the other hand, in the county of Linconshire, where there are frequent sources of marsh miasmata, & where fever & ague exist even to a desolating degree, pulmonary consumption is intily unknown. Now do they limit the Sources of evidence to their own country. On the contrary, extending their researches over Europe, They find every where, or, at least, pretend to finds, confirmation of their sentiments. Thus, in Holland the ague & fiver is prevalent to a great degree ; but it is stated positively, that pulmonary consumption is among the rarest of complaints. I wollet that by Dr. Logan, who practiced in Holland, the same remark was made, in a works

where will the selection with a last thing of the selection down it there weeking a dished all he was no bethe new the thouse " To not head the to want? in the death flower the allowed the to the to the to the and the sent to where four brages to have now hidreally since where were I land or winder to the think were to is true so remarks and while the will be a will so die which it Described the health will be the think the will be harmond orderly while there is not a gold life, for of wheel our in a trade bearing it the King of the tuck to a destrolish of every literary or and note in interliging the many to the de the day of the Give Mariet was to their win south of the the sent in soil the is the make who will be the order by distribution of their most trained . There in the given a land it is white hard made with the thinker had in to recommendation is a more than a word of a good to live The third the device of many was seen to go a grown

which he published 20 or 30 years ago. The same is said to hold in flanders & other parts of Enwhe . The fact that ague & fever prevails through Egypt, while consumption is entirely absent, goes to confirm the same opinion. But the strongest evidence is afforded by Italy. It is known to you all that the climate of this country is by for the most equable & temperate in the world. It is said by the writers to whom I refer, that in those parts which are gifted with perpetual screnety & perennial bright. ness, consumption prevails to an alarming extent; but in the finny districts of the same country, & especially in the parts where nice has lately been cultivated, and which, of course, on occasionally overflown, ague & fever prevails & consumption is wholly unknown. Notwithstanding, however, all this accumulation of evidence, I do not wish to press the opinion on you. Before ourending wh an habitual prejudice in favour of any doctine, a doctine too, sanctioned by the lessens of immemorial experience, we have a right to require that facts of an indisputable natwo should be advanced against it. Till facts of This nature are adduced, we should hold fast that ground which practical experience tells us is perfeetly bound.

with the second of the second I want of destinate their day to about the stand letter is the threat thereties with the last or the relative de later les au Pro- miner al Variet and and let all is allow dear for tiller where a de titude a belief at a good of afficience landing to being forter land a september of the standard and standard the standard had made in the first thing the first the mile to be a the The have to find the the same the & with The second to the test of the second to the I do it was a secretary and some of the sound of the soun And the second second had the confunction of the same to and it is the second of the se all by a lady of in the fairlean back have him and the second of the second o love desire the the interess of a president with the first with hard and a first a grant of a find the first than

At the close of the lecture of yesterday, I was speaking relative to the description of climate most favourable to consumption patients. It appears from what was said on that occasion, that though there is little doubt that a mild & equable dimate is preferable in this case; yet it is exceedingly difficult to determine the exact shot to which it would be best to send your patient. It seems from indubitable testimony, that many places to which we have been in the habit of sending our patients, are hable to the disease, & perhaps little can be gained by a change of residence. No part of Exame is entirely exempt from this complaint. It abundantly prevails in Paris, Lyons & Montpelier; the two last of which are much resorted to by the infirm & valetudinary. Now is the case different as regards Naples, Prome, Venice, Leghorn, or, indeed, any one position in Italy. And even Lisbon & the island of Madeira, 20 qually celebrated as resorts for consumption patients, constitute no exception to the remark. After a great deal of inquiry, the south of Spain, & particularly in & about Valencia, has been selected for this. purpose. As regards our own country, some one of the West India Islands, & Bermuda mou than The others, is commonly chosen. But no one of

1 collection of the later of the line to the second la court to the commence that the trail of the fitting is then in the death of the time and the second the second the second A STATE OF THE WAS A SHORT OF THE STATE OF T and to be I delicated a second of the Market leteralized that we was the with what we have Lateral State of the State of t at most with the first of the the same is about the instrumental the with their dear thought when land to have with had south of hand to the the with it is the the south of the the south of the south There was the standard and the standard of the standard of the straight the the state of the second in all well and the second of the second of the second of the second of the second and the second of the second o out of aging the deep to form I have I have and the selection of the land on their layer while the thirt their thinks and sold is all regard on our wife country is the sold of of the Work Buller Palente is the minister than the the second of th Them is exempt from consumption, & Burnuda is particularly liable to it, from its exposure to the sea, occasioned by its diminutive size. Any one of the larger West India Islands will answer very well, & is the best place to which the patient can be sent. I believe it is pretty accurately ascertained, that there is no section of the United States in which the disease is not met with; though it abounds the most along the seacoast, & especially in New York & the Castern States. It is right, therefore, to recommend the removal of your patient from these situations to some shot less exposed to the complaint. But were exceedingly variable is every part of our dimate, that it is hardly safe to trust a person attacked with pulmonary consumption, any where within our limits. To The interior of Georgia & New Orleans There is The least objection. But even there the weather is not without occessitudes, & there is great has-Land, unless care & circumspection are used, Conordering, on the whole, the numerous inconveniences & difficulties on a change of residence to a distant place, & the equivocal advantage of it in many instances. I do not know whether the confinement of the patient, at home, in a room

4 7 4 while will a series The last that the said I have * want to send when the second that I will the a Some Grid I Berlin States . Martin . Martin . Martin health that it is more lines of have been been an and the second Hilly lastly and

of a properly regulated temperature, is not to be perfered. The limberature should be from about 60° to 65.° It is true that much is ascribed to the effects of a sea voyage, & perhaps, justly, when resorted to in the early stage of the disease. But if the case is advanced, this remedy is distitute of efficacy, & I have more than once known death to be caused by the hard ships & exposures of a sea voyage.

As a part of the preceding plan, exercise regularby & moderately taken, especially on horse back is much celebrated, & its importance is fully recognised. It was recommended originally by Sydenham, who spoke favourably of it in terms more confident Than he was accessioned to employ; &, so far as I know, all subsequent experience concurs to support his opinion of the remedy. But this, like every other part of the treatment, must be regulated by discrimination & judgment. Being highly stimulant & tonich, it should never be neurred to while the pulse is full, & much inflammatory diatheris prevails. Employed in this condition of the system, it often oceasions hamophysis, & accellerates the march of the disease. But when the patient has been properly prepared for it, then exercise on horse back is one of the most important remedies, and deservers all

of a hope it was lated limburation, is and to to he Live the Landing that the the hand the test of with the trans that invest in issued to the affine La become to the harbage and the the mounted teller man than one having it all it he was Contract of the Robert State of the State of in the a fact of the manufact of the secretary was the I rais recognition of the Secretary States and the second when he started the girl have the service the hand the service of have be not not made in a fact that the said the interes I had made to the way that the think of the Carlotte of the Control of the Contr the reason has all my to reach with the wind and were the state of of the source with the Francis of it was about the source the praise which has so long & so generally been confired on it. Riding over low marshy ground will sometimes be of advantage, when an elevated country & pour air would permicious.

After all, however, little advantage will be gained by any course of heatment, unless the diet be strictly regulated. By the common consent of practitioners, that food thould be prescribed which is light & of easy digestion, without the shightest tendency to heat or stimulate the system. No course of living is better suited to this complaint than milk alone, or united with the farinaceous articles, & hence a milk diet has been immersorially recommended. The lichin Islandicus is also very good.

To conclude the prophylactick plan, I have only to add that all the exciting causes should be studiously avoided, & above all an exposure to cold, which must be quarded against by wearing flammel, at all seasons, next the skin.

With this I close the history & treatment of pulmonary consumption. It will be recollected, that, of the three leading forms, I have pronounced one, & Jappuhund on the authority of the medical world I have pronounced it, to be wholly ineurable. Of the two other eases of the disease, though now & then we do accomplish the state of the Land water that the state of the state of descriptions in the dear they a start in the second of the second Marie Commence of the Commence Carried Control of the Control of th In granded agreemed by covering planned with all all Many to a Mary and the self of the self and the self and

the treatment with little confidence of ultimate success. It is, therefore, one of the highest & most sacred of our dieties, to prevent the formation of the disease, & with this view, uniformly to attach it in its early stage. The experience of every physician warrants the conclusion of the incurable nature of Tubercular Courumption, & that, although cures of the other forms of the complaint are occasionally affected; yet even here, we cannot place entire confidence in our remedies.

